AUDIO VIDEO SURROUND RECEIVER

KRF-X7775D/X7775D-S
VR-5080/5090
SERVICE MANUAL

KENWOOD

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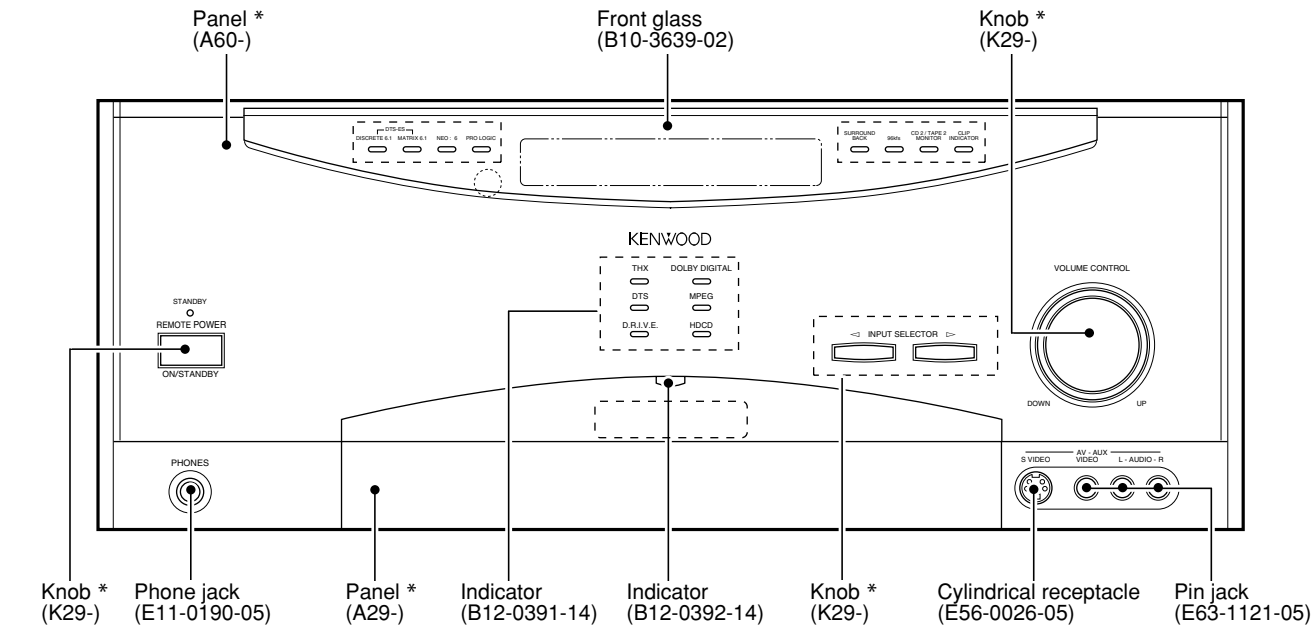

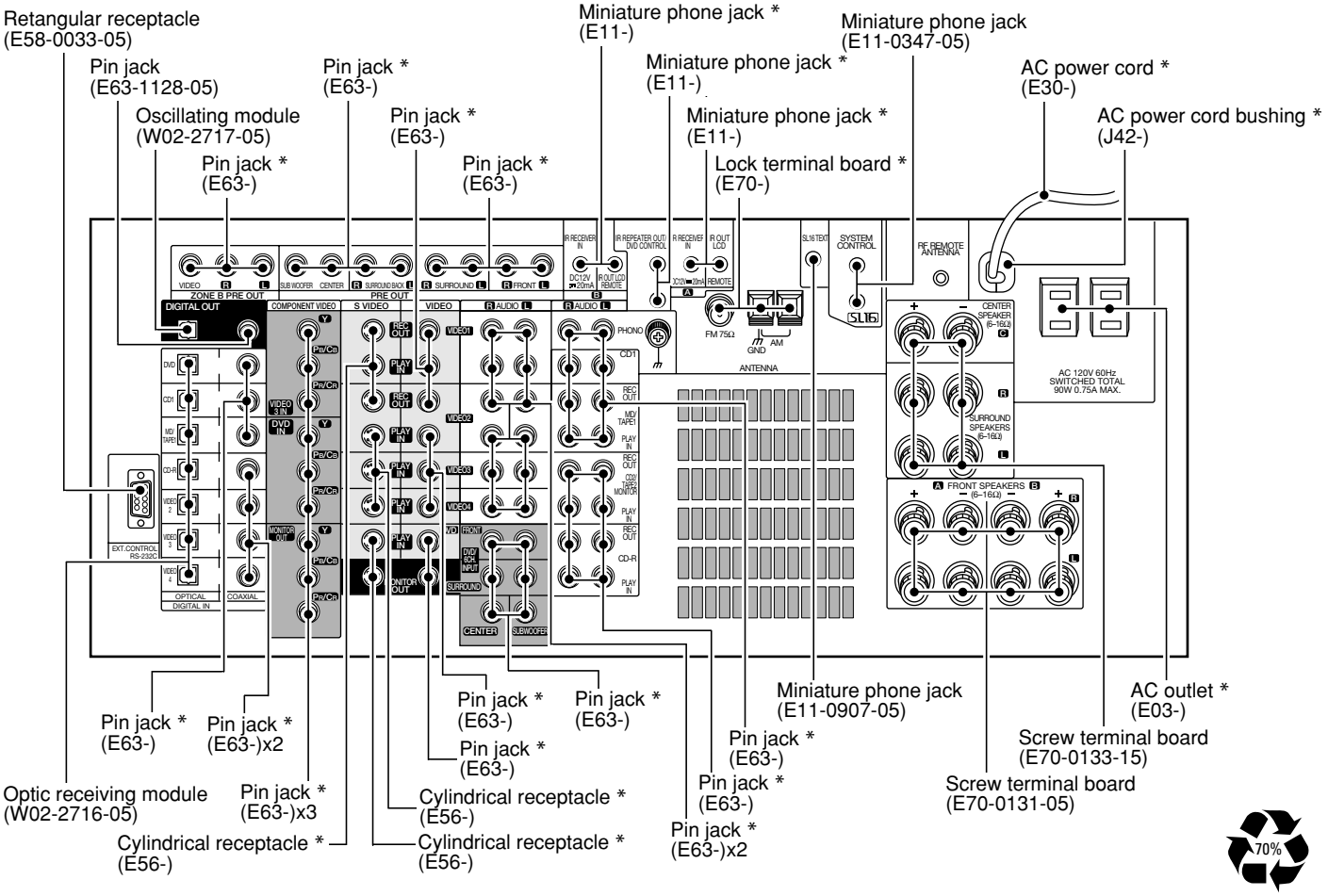

Illust is KRF-5090.

*** Refer to parts list on page 55.**

CONTENTS / ACCESSORIES

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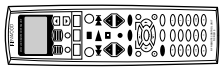
Accessories

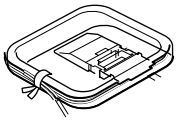
Remote control unit
(A70-1453-05): RC-R0913...KP1K1P2
(A70-1454-05): RC-R0914...M1X1Y1V
(A70-1455-05): RC-0915.....E1E2



Battery cover(A09-1166-08)

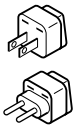
Batteries

AM Loop Antenna
(T90-0852-05)



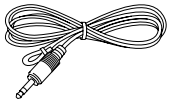
FM Antenna
(T90-0855-05)

AC plug adaptor *..... (1)



Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

Antenna ass'y
(T90-0850-15)
U.S.A. only



* Refer to parts list.

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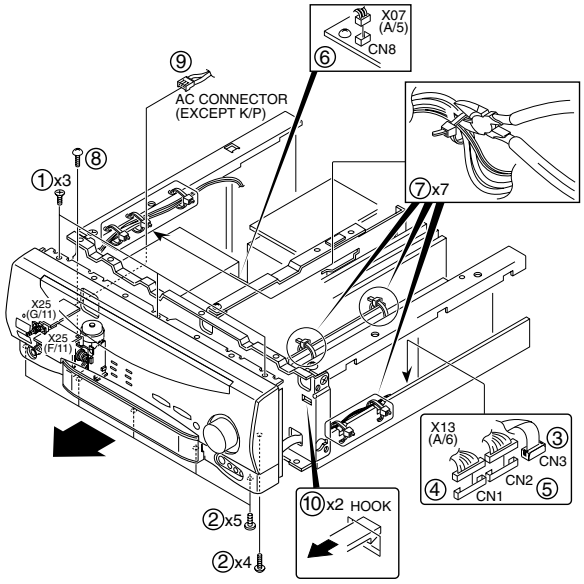
DISASSEMBLY FOR REPAIR

How to Remove the Front Panel

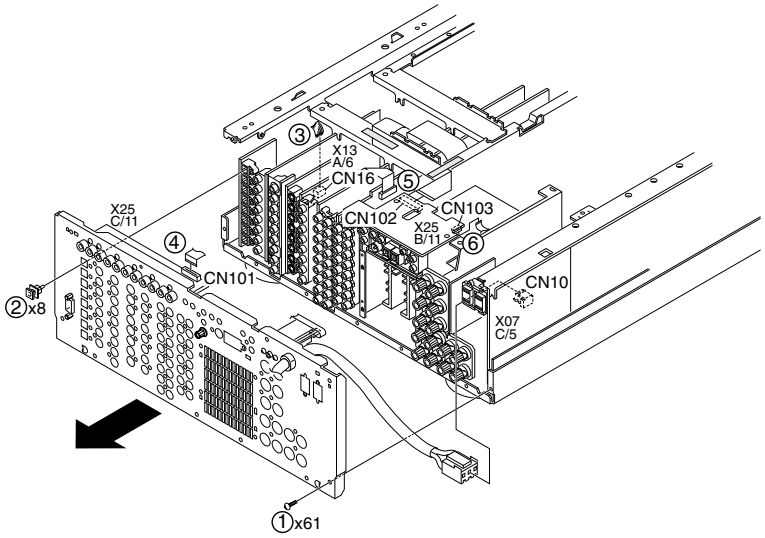
1. How to Remove the Front Panel

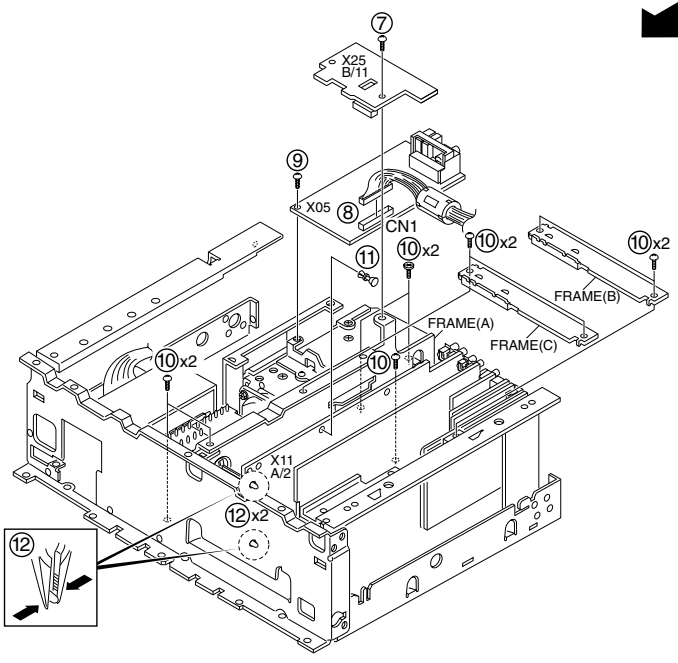
1. Remove the screws (①X3) on top of the panel.
2. Remove the screws (②X9) located at the the bottom of the panel.
3. Disconnect the cable (③) and connectors (④,⑤) on the X13 A/6.
4. Disconnect the connector (⑥) on the X07 A/5.
5. Cut the tie band (⑦X7) as shown in the figure.
6. Remove the screw (⑧X1) on the X25 F/11.
7. Disconnect the connector (⑨) on the X25 G/11.(Except K/P type)
8. Remove the hooks (⑩X2) on the sub panel.
9. Remove the front panel in the direction of arrow.



Disassembling the Rear Panel and How to Replace the Power Transistor

1. Disconnect the CN10 on the X07 C/5.
2. Remove all of screws (①X61) and digital caps (②X8) on the rear panel.
   (The number of screws and caps are vary according to the models).
3. Disconnect the cable CN16 (③) on the X13 A/6.
4. Disconnect the flexible cables CN101(④) on the X25 C/11, CN102 (⑤) and * CN103 (⑥)on the X25 B/11.
   * (K/P type only).
5. Remove the rear panel in the direction of arrow.
6. Remove the screw (⑦), then remove the X25 B/11.

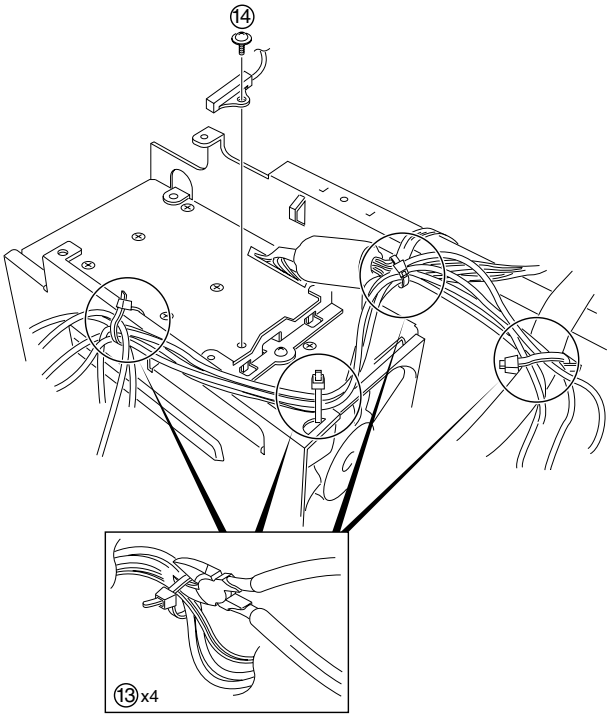




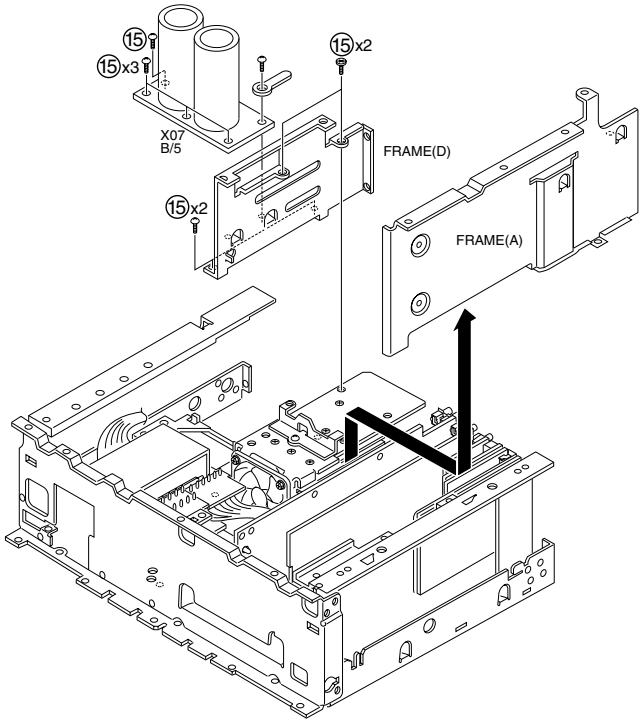
7. To remove the tuner unit, disconnect the CN1 (⑧) and remove a screw (⑨).
8. Remove the screws (⑩X9) on the frames (A/B/C), push rivet (⑪) and PC support (⑫x2)on the X11 A/2.

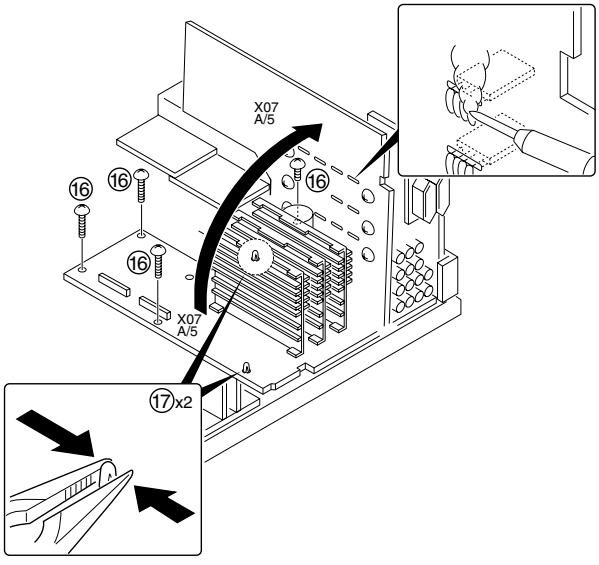
DISASSEMBLY FOR REPAIR

9. To remove the frame A rearward, cut the tie bands (⑬X4) on the frames.
10. Remove a screw (⑭), then remove a thermostat.



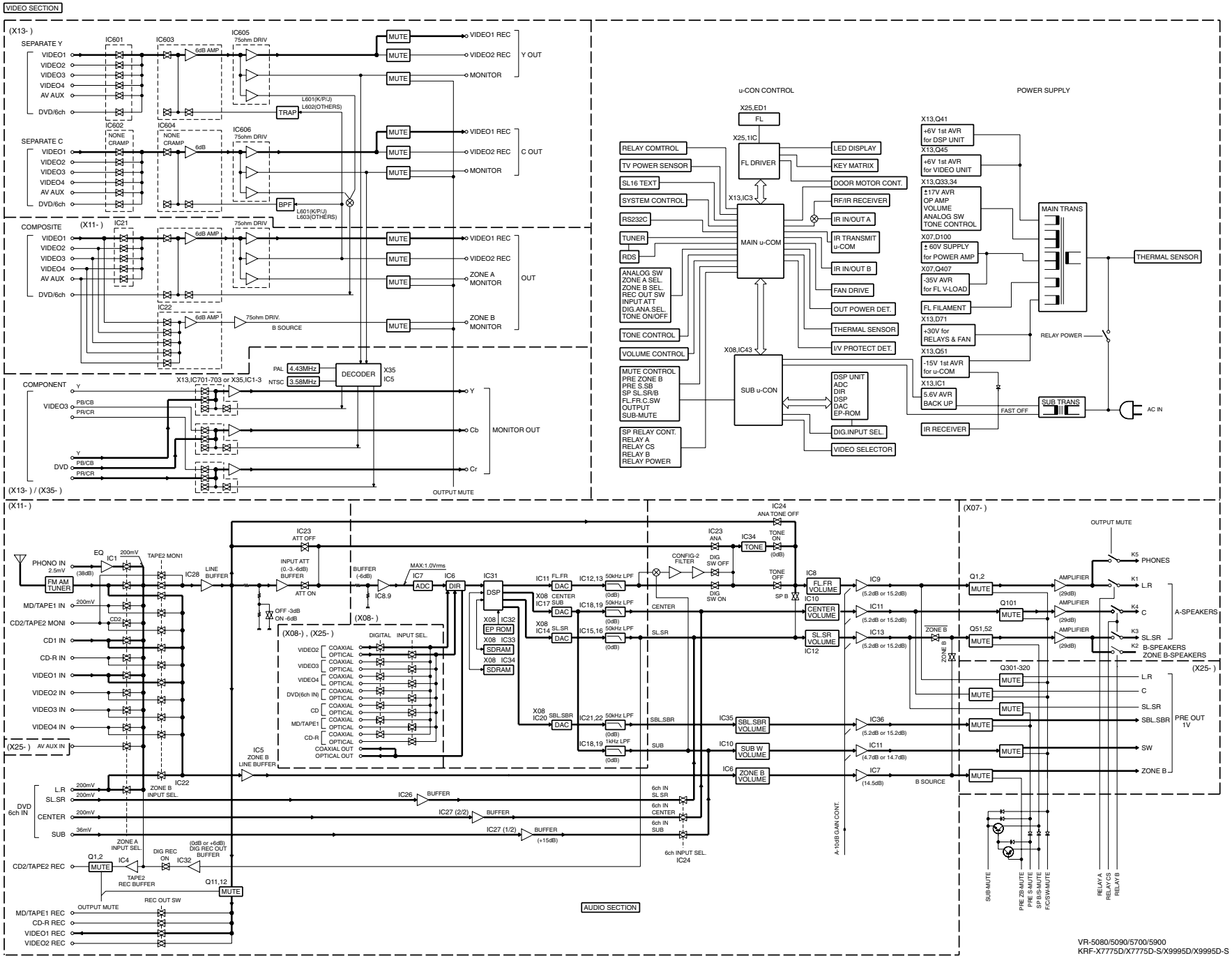
11. Remove the screws (⑮X8), then remove a frame (D), and X07 B/5.
12. To remove a power amplifier unit (X07 A/5), remove the screws (⑯x4), and a PC support (⑰x2).
13. Set up the X07 A/5 in the direction of arrow as shown in the figure.
14. Replace the defective transistor.





KRF-X7775D/X7775D-S/VR-5080/5090

BLOCK DIAGRAM



VR-5080/5090/5700/5900
KRF-X7775D/X7775D-S/X9995D/X9995D-S

CIRCUIT DESCRIPTION

1. Initialization

1-1 The Initial Setting

• Insert the power cord to AC wall outlet by pressing the "ON/STANDBY" key.

2. Destination List of Tuner

0 : Pull down,1:Pull up

SET TYPE	TYPE	BAND	RECEIVING FREQUENCY RANGE	CHANNEL SPACE	IF	PLL
K, P, R	K1 1700	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz-1700kHz	10kHz	+450kHz	10kHz
Y, M, I, C, V	K2 1610	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz-1610kHz	10kHz	+450kHz	10kHz
K, P	K4 1700 RBDS	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz-1700kHz	10kHz	+450kHz	10kHz
Y, M, I, C, V, E, X, H	E1	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz-1602kHz	9kHz	+450kHz	9kHz
E, T	E3 RDS	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz-1602kHz	9kHz	+450kHz	9kHz

3. Conditions according to the models or destination

3-1 Distinction of Destination : u-com (X13,IC3) Port 54

Type	Voltage : Max 5.0V
K2	0~0.52
K1	1.61~2.49
K4(RBDS)	2.51~3.39
E3(RDS)	3.41~4.45
E1	4.47~5.00

3-2 Distinction of Models : u-com (X13,IC3) Port 53

Models	✻	Voltage : Max 5.0V
VR-5080	NO	0~0.37
VR-5090	YES	0.39~1.10
VR-5700	YES	1.12~1.84
VR-5900-S	YES	1.86~2.49
KRF-X9995D/D-S	YES	2.51~3.14
KRF-X7775D/D-S	YES	3.16~3.88
KRF-X9995D-S (M/X TYPE)	NO	3.90~4.61
KRF-X7775D-S (M/X/V TYPE)	NO	4.63~5.00

✻ Switching of RF or Front IR and Rear IR Receiver Terminal.

4. Tuner Preset Memory

P.ch	K1	K2	K4	E1	E3
1	FM 98.3M	FM 98.3M	FM 98.3M	FM 98.3M	FM 98.3M
2	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
3	FM 89.1M	FM 89.1M	FM 89.1M	FM 89.1M	FM 89.1M
4	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M
5	FM 90.0M	FM 90.0M	FM 90.0M	FM 90.0M	FM 90.0M
6	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
7	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
8	AM 1610K	FM 87.5M	AM 1610K	FM 87.5M	FM 87.5M
9	AM 1700K	AM 1610K	AM 1700K	AM 1602K	AM 1602K
10	AM 1000K	AM 1000K	AM 1000K	AM 999K	AM 999K
11	AM 630K	AM 630K	AM 630K	AM 630K	AM 630K
12	AM 1440K	AM 1440K	AM 1440K	AM 1440K	AM 1440K
13	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M
14	AM 530K	AM 530K	AM 530K	AM 531K	AM 531K
15	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
16	FM 98.0M	FM 98.0M	FM 98.0M	FM 98.0M	FM 98.0M
17	FM 98.5M	FM 98.5M	FM 98.5M	FM 98.5M	FM 98.5M
18	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
19	AM 990K	AM 990K	AM 990K	AM 990K	AM 990K
20	FM 97.4M	FM 97.4M	FM 97.4M	FM 97.7M	FM 97.7M

P.ch	K1	K2	K4	E1	E3
21	AM 530K	AM 530K	AM 530K	AM 531K	AM 531K
22	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
23	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
24	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
25	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
26	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
27	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
28	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
29	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
30	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M
31	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
32	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
33	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
34	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
35	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
36	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
37	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
38	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
39	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M
40	AM 1000K	AM 1000K	AM 1000K	AM 945K	AM 945K

CIRCUIT DESCRIPTION

5.Test Mode

5-1 Setting Method of the Test Mode

•Turn on the power supply while pressing the "INPUT SELECTOR DOWN" key, to make a set in test mode.

5-2 Canceling the Test Mode

•The system is initialized and the test mode is cancelled if unplug the AC power cord from an AC power wall outlet.

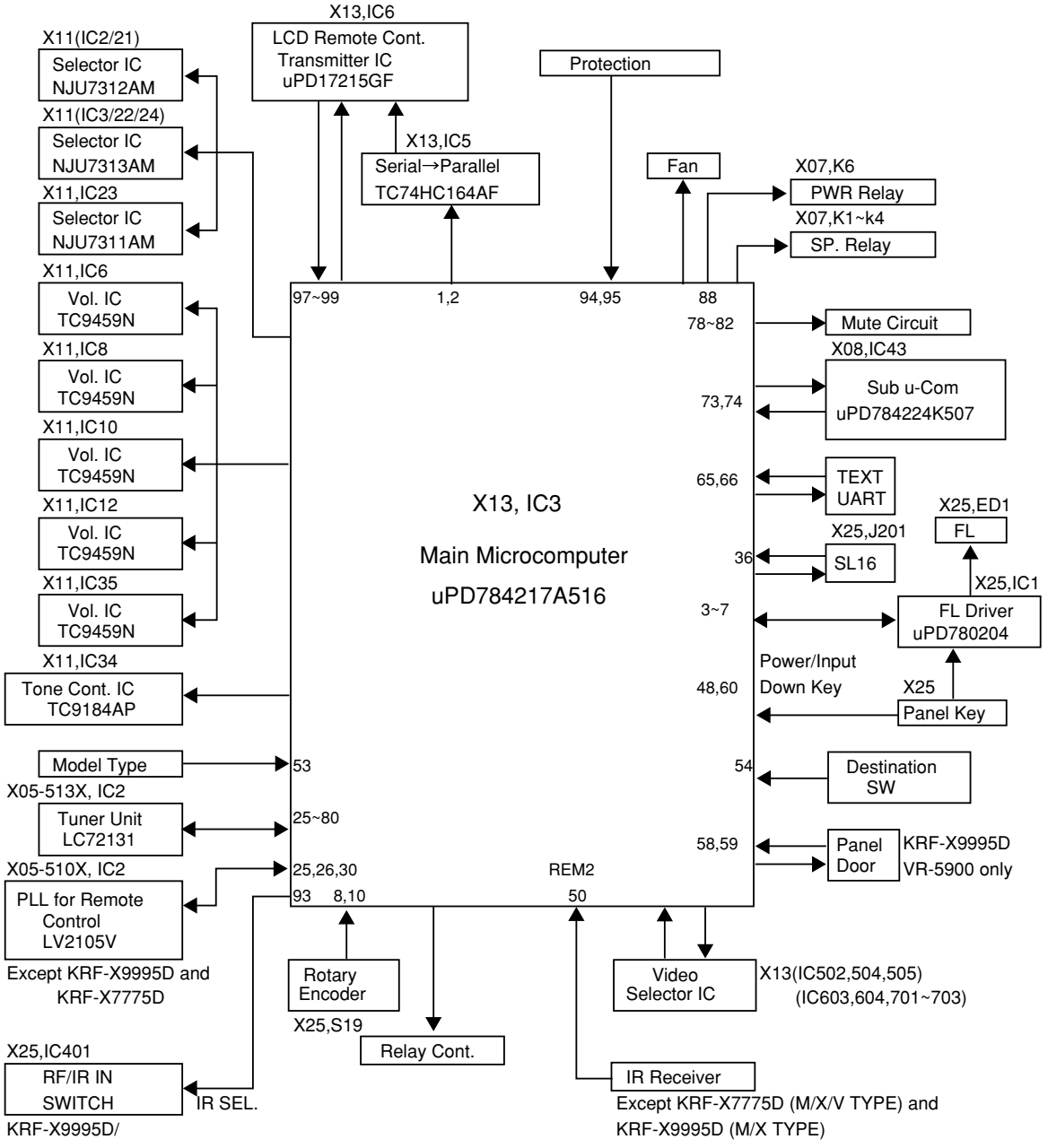
5-3 Contents of the Test Mode

✻ The following operation is available when the FL is all lighting up mode only.

Key	Operation	Display
SOUND	Set up the RF frequency to428MHz.	RF BAND
LISTEN MODE	Set up the RF frequency to422MHz.	RF BAND
THX	Indicated the tuner destination in the FL.	EX. TYPE E1
MEMORY	Changed the dimmer off/1/2 cyclically.	ALL FL Light ON

6. Main Microcomputer: uPD784217A516 (X13, IC3)

6-1 Main Microcomputer Periphery block diagram



CIRCUIT DESCRIPTION

6-2 Port Description of Main Microcomputer : uPD784217A516 (X13, IC3)

Port No.	Port Name	I/O	Function
1	REM DA	O	IR transmitter IC(X13,IC5) control data output.
2	REM CK	O	IR transmitter IC(X13,IC5) control clock output.
3	FL CLK	O	Clock output to FL driver.
4	FL DIN	I	Data input from FL driver.
5	FL DOUT	O	Data output to FL driver.
6	FL STB	O	Strobe output to FL driver.
7	FL RST	O	Reset output to FL driver.
8	ENC B	I	Input port of volume encoder.
9	VDD	-	+5V power supply.
10	ENC A	I	Input port of volume encoder.
11	SEL CLK	O	Clock output to selector IC.
12	SEL DATA	O	Data output to selector IC.
13~15	SEL STB1~3	O	Strobe (1~3) output to selector IC.
16	TONE CLK	O	Clock output to tone control / selector IC.
17	TONE DATA	O	Data output to tone control / selector IC.
18	TONE STB	O	Strobe output to tone control IC.
19	VOL CLK	O	Clock output to volume IC.
20	VOL DATA	O	Data output to volume IC.
21	VOL STB2	O	Strobe 2 output to volume IC.
22	TEST/VPP	-	Connected to GND.
23	STEREO	I	Tuner stereo signal detection port.
24	SD	I	Tuner SD signal detection port.
25	RF PLL CLK	O	Clock output to PLL (LC72131) IC. ✻ Clock output to PLL IC (LV2105V) for RF remote controller. ✻ Except KRF-X7775D/9995D
26	RF PLL DATA	O	Data output to PLL(LC72131) IC. ✻ Data output to PLL IC (LV2105V) for RF remote controller. ✻ Except KRF-X7775D/9995D
27	PLL DO	I	Data input from PLL (LC72131)IC.
28	PLL CE	O	Chip enable to PLL (LC72131) IC.
29	T MUTE	O	Mute control to tuner.
30	RF PLL CE	O	PLL (LV2105V)CE for RF remote controller. (VR series only)
31~33	P MACRO A~C	O	Output port for perfect macro (A~C). (Refer to 7-6)
34	TV SENS	I	Detection port of TV signal. (Refer to 7-7)
35	VOL STB1	O	Strobe 1 output to volume IC.
36	S DATA	I/O	SL16 data input/output.
37	VDD	-	+5V power supply
38	X2	-	Crystal resonator (12.5MHz) connection.
39	X1	-	Crystal resonator (12.5MHz) connection.
40	VSS	-	Connected to GND.
41	XT2	-	Unused.
42	XT1	-	Unused.
43	RESET	I	Reset signal input for main microcomputer.
44	CE	I	Detection port of chip enable.
45	S BUSY	I/O	Busy signal input/output.
46	232C DET	I	Detection port of RS232C communication. (Except KRF-X7775D)
47	RDS CLK	I	Clock input of RDS demodulator IC. (E/T type only)
48	POWER KEY IN	I	Detection port for power key.
49	REM1	I	Remote control signal input 1 (front panel).
50	REM2	I	Remote control signal input 2 (IR receiver). Except KRF-X7775D (X/M/V)and KRF-X9995D (M/X)

CIRCUIT DESCRIPTION

	Port No.	Port Name	I/O	Function
	51	VDD	-	+5V power supply
	52	AVREF	-	Reference voltage input.
	53	MODEL SEL	I	Discrimination port for model type.
	54	DSW0	I	Detection port for tuner destination SW 0.
	55	THERM SW	I	Detection port for thermal switch. (Refer to 7-1)
	56	S LEVEL	I	RDS signal level input. (E/T type only)
	57	RDS DATA	I	Data input of RDS demodulator IC. (E/T type only)
	58	CLOSE SENS	I	Detection port of close sensor for panel door. (Refer to 7-3) (KRF-X9995D/VR-5900 only)
	59	OPEN SENS	I	Detection port of open sensor for panel door. (Refer to 7-3) (KRF-X9995D/VR5900 only)
	60	INPUT DOWN KEY IN	I	Detection port of input down key.
	61	AVSS	-	Connected to GND.
	62	P MACRO IN	I	Input port of perfect macro. (Refer to 7-7)
	63	RELAY CONT	O	Relay control output. (Refer to 7-4)
	64	AVREF1	-	Reference voltage input.
	65	1394/TEXT RX	I	CD TEXT UTRA communication data input.
	66	1394/TEXT TX	O	CD TEXT UTRA communication data output.
	67	SUB RESET	O	Reset signal output to sub microcomputer.
	68	RS RX1	I	RS232C communication data input 1. (Except KRF-X7775D)
	69	RS TX1	O	RS232C communication data output 1. (Ditto)
	70	RS RX2	I	RS232C communication data input 2. (Ditto)
	71	RS TX2	O	RS232C communication data output 2. (Ditto)
	72	LED	O	Control port for pro logic2 led.
	73	SDT	I	Communication data input from sub microcomputer.
	74	MDT	O	Communication data output to sub microcomputer.
	75	MCK	O	Clock output to sub microcomputer.
	76	MREQ	O	Communication master request.
	77	SREQ	I	Communication slabe request.
	78	F/CSW MUTE	O	Mute control port for room A.
	79	PRE S/B MUTE	O	Mute control port for pre out surround.
	80	SP S/B MUTE	O	Mute control port for S/B speakers.
	81	PRE ZB MUTE	O	Mute control port for pre out B (zone B).
	82	V/RECMUTE	O	Mute control port for video rec out.
	83	10dB GAIN	O	Switching port for +10dB amplifier.
	84	RELAY CS	O	Mute control port for center/surround speakers.
	85	RELAY B	O	Relay control port for speaker B.
	86	RELAY A	O	Relay control port for speaker A.
	87	RELAY TR	O	Switching port for transformer tap.
	88	POWER	O	Power relay control port.
✻	89	FAN H/L	O	Control port for fan motor (H/L).
✻	90	FAN ON/OFF	O	Control port for fan motor (on/off).
✻	91	10W	I	10W detection port for fan control.
✻	92	1W	I	1W detection port for fan control.
	93	IR SELECT	O	RF/IR IN switch control. (Refer to 7-5), KRF-X9995D/VR-5900 only
	94	V PROT	I	Detection port of protection signal.
	95	I PROT	I	Detection port of protection signal.
	96	STBY LED	O	Control port for standby led.
	97	REM RWR	I	RWR from LCD remote controller.
	98	REM ENB	I	Chip enable from LCD remote controller.
	99	REM REQ	O	Request to LCD remote controller.
	100	VSS	-	GND

✻ Refer to 7-1

CIRCUIT DESCRIPTION

7. Description of the Circuit Control

7-1 Fan Control (X13,IC3)

Fan	10W(91Pin)	1W(92Pin)	THERMAL SW(55Pin)	FAN ON/OFF(90Pin)	FAN H/L(89Pin)
FAN STOP	H	H	L	0	1
FAN LOW SPEED	H	L	L	1	1
FAN HI SPEED	L	L	L	1	0
FAN LOW SPEED	H	H	H	1	1
	H	L	H	1	1
FAN HI SPEED	L	L	H	1	0

7-2 Door Open/Close Control : FL Driver(X25,IC1)

KRF-X9995D/VR-5900 only

	DOOR OUT1(42Pin)	DOOR OUT2(41Pin)
OPEN	1	0
CLOSE	0	1
STOP	0	0
BREAK	1	1

7-3 Open Close Sensor(X13,IC3 : Main u-com)

KRF-X9995D/VR-5900 only

	OPEN SENS(59Pin)	CLOSE SENS(58Pin)
END OF OPEN ACTION	0	1
END OF CLOSE ACTION	1	0

7-4 Relay Control : X13,IC3(Main u-com)

SELECTOR	RELAY CONT.(63Pin)
PHONO	0
TUNER	
CD1	
MD/TAPE1	
CD-R	
CD2/TAPE2 MONITOR	
VIDEO1	1
VIDEO2	
VIDEO3	
VIDEO4	
DVD	
AV/AUX	

7-5 IR Remote Control

		X25,IC401 RF IN (7Pin)	X25,IC401 IR IN (6Pin)	IR SELECT X13,IC3 (93Pin)
WITH RF VERSION	RF ON	X	O	0
	RF OFF	O	X	1
WITHOUT RF VERSION	FRONT IR ON	X	O	0
	FRONT IR OFF	O	X	1

7-6 P Macro Video Switch(X13,IC505)

SELECTOR	P MACRO A(3Pin)	P Macro B(4Pin)	P Macro C(5Pin)
VIDEO1	0	0	0
VIDEO2	0	1	0
VIDEO3	1	0	0
VIDEO4	1	1	0
DVD	0	0	1

7-7 Video/TV Detection : X13,IC3

Video Detection

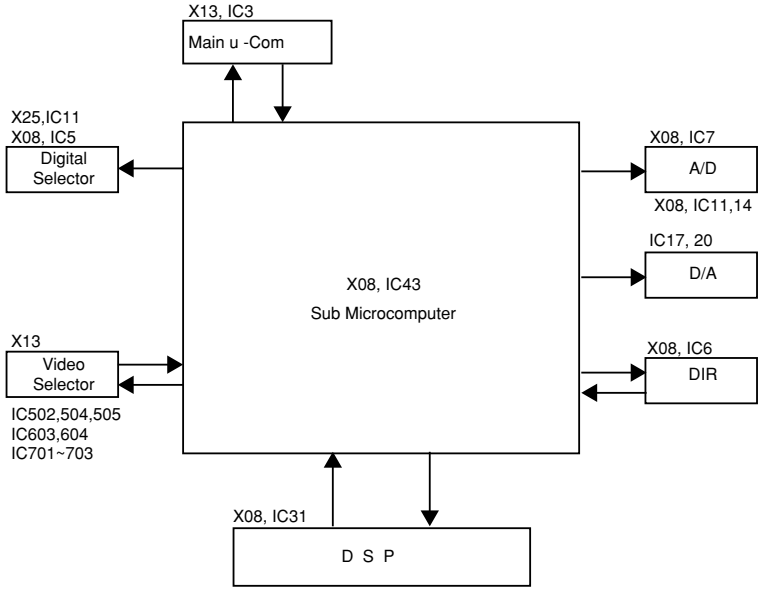
Video Signal	P Macro IN(62Pin)
Yes	H
No	L

TV Detection

TV POWER	TV SENS.(34Pin)
ON	H
OFF	L

8. Sub microcomputer: uPD784224K507(X08, IC43)

8-1 Sub microcomputerperiphery block diagram



CIRCUIT DESCRIPTION

8-2 Port Description of Sub Microcomputer : uPD784224K507 (X08,IC43)

Port No.	Port Name	I/O	Function	ACTIVE	
				H	L
1	ERF	I	D.I.R. (X08, IC6) error flag.		
2	FS96 DET	I	96KHz fs detection. H : fs>88.1kHz detection		
3	AUTO	I	Non-PCM detection. H : Non-PCM detection		
4	AVSS	-	GND		
5	DIR PD	O	Power down for D.I.R. (X08, IC6). L : DIR power down and reset		
6	DIR CS	O	Chip select for D.I.R. (X08, IC6). L : Chip selection		
7	AVREF	-	Reference voltage.		
8	DIR DIN	I	Data input from D.I.R. (X08, IC6).		
9	DIR DOUT	O	Data output for D.I.R. (X08, IC6).		
10	DIR CLK	O	Clock output for D.I.R. (X08, IC6).		
11	D MUTE	O	Mute signal output for D.I.R. (X08, IC6).		Data mute
12	DAC PD	O	Power down for D/A converter (X08, IC11/14/17/20).		Power down
13	DAC 96K	O	Double speed sampling mode for D/A converter speed mode (X08, IC11/14/17/20). H : Double		
14	DAC MUTE	O	Mute signal output for D/A converter (X08, IC11/14/17/20).	Mute	
15	ADC RST	O	Reset signal output for A/D converter (X08, IC7).		Reset
16	MDT	I	Main microcomputer master data.		
17	SDT	O	Sub microcomputer data output.		
18	MCK	I	Main microcomputer control data clock		
19	MREQ	I	Main microcomputer master request.		
20	SREQ	O	Main microcomputer slabe request.		
21	REC 6dB	O	Rec gain control when HDCD +6dB.	+6dB on	
22~24	DSEL A~C	O	Control port for digital input selector (A~C).		
25	DSP POWER	O	Power supply for DSP/DAC/ADC/DIR.		
26	DSP RESET	O	Reset signal output for DSP.		
27~32	DSP D0~D5	I/O	DSP control data.		
33	VSS	-	GND		
34,35	DSP D6,7	I/O	DSP control data.		
36	DSP REQ	O	DSP communication request.		Request
37	DSP ACK	I	Input port of command data reading from DSP.		Ack.
38	DSP BUSY	I	DSP status busy.	Busy	
39	DSP WRT	O	DSP Write	Data write	Data read
40	DTS DET	I	DSP DTS detection.	DTS	
41	PCM ZERO	I	PCM zero data detection.	PCM 0	
42	HDCD DET	I	DSP HDCD sync. Detection.	HDCD	
43	HDCD 6dB DET	I	DSP HDCD +6dB detection. (KPCM)	+6dB	
44	OVER LEVEL	I	DSP over level detection.	Over level	
45	PCM MUTE	O	DSP mute control (PCM).		Fixed
46	DRIVE	O	DSP D.R.I.V.E. /HDCD control (PCM).		D.R.I.V.E/ HDCD ON
47	SUB MUTE	O	Sub microcomputer analog mute.		Mute on
48~50	C ROOMB(C/B/A)	O	Zone B video selector control.		
51,52	YC SEL(B, A)	O	Zone A video selector control.		
53~59	C ROOMA(A~G)	O	Zone A video selector control.		
60	RESET	I	Reset signal input.		
61	YC MUTE	O	Zone A video selector (Y/C) mute control.		
62	FSC CTRL	O	Zone A video selector FSC control.		
63	VSEL	O	Zone A video selector control.		
64	CTRL A2	O	Zone A video selector control A2.		
65	CTRL B	O	Zone A video selector control B.		
66	CTRL A	O	Zone A video selector control A.		

CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Function	ACTIVE	
				H	L
67	VSS	-	GND		
68	VDD	-	Power supply (+3.3V).		
69	X2	-	Crystal resonator (6MHz) connection.		
70	X1	I	Crystal resonator (6MHz) connection.		
71	TEST	-	Pull down port.		
72	XT2	-	Unused.		
73	XT1	-	GND		
74	VDD	-	Power supply (+3.3V).		
75	AVDD	-	Power supply (+3.3V).		
76	NC	-	Unused.		
77	C DET	I	Zone A component signal detection.		Detection
78	Y DET	I	Zone A S-terminal signal detection.		Detection
79	CK DET	I	Zone A color killer detection.		
80	OPT DET	I	Optical digital input detection.		

9. Description of the Circuit Control

✻ The number in the ( ) is pin number of sub microcomputer.

9-1 Digital Selector

• VR-5700/5900/5090/KRF-X9995D(for OPT and COAX)

INPUT	DSEL A(Pin22)	DSEL B(Pin23)	DSEL C(Pin24)
CD1	L	H	L
MD/TAPE1	H	H	L
CD-R	L	L	H
VIDEO2	H	L	H
VIDEO3	L	H	H
VIDEO4	H	H	H
DVD	H	L	L
OTHERS	L	L	L

• VR-5080/KRF-X7775D

INPUT	DSEL A (Pin22)	DSEL B (Pin23)	DSEL C (Pin24)
CD1(OPT)	L	H	L
VIDEO2(COAX)	L	H	L
VIDEO3(COAX)	H	H	L
DVD(OPT/COAX)	H	L	L
OTHERS	L	L	L

9-2 Video Selector

(BA7649AF,BA7611AF,BA7612F,BA7613F)

① VSEL

INPUT	VSEL(Pin63)
VIDEO1	L
VIDEO2	L
VIDEO3	L
VIDEO4	L
AV-AUX	L
DVD	H
V MUTE	L

② Y C Select

② -1 Y Detect(Pin78) = H

INPUT	Y C SEL A (Pin52)	Y C SEL B (Pin51)
VIDEO1	L	H
VIDEO2	L	H
VIDEO3	L	H
VIDEO4	L	H
AV-AUX	L	H
DVD	H	L
V MUTE	H	H

② -2 Y Detect(Pin78) = L

INPUT	Y C SEL A (Pin52)	Y C SEL B (Pin51)
VIDEO1	L	L
VIDEO2	L	L
VIDEO3	L	L
VIDEO4	L	L
AV-AUX	L	L
DVD	L	L
V MUTE	H	H

③ CTRL A, CTRL A2, CTRL B

③ -1 C Detect(Pin77) = L

VR-5900/5090/KRF-X9995D

INPUT	CTRL A (Pin66)	CTRL A2 (Pin64)	CTRL B (Pin65)
VIDEO1	L	L	H
VIDEO2	L	L	H
VIDEO3	L	L	L
VIDEO4	L	L	H
AV-AUX	L	L	H
DVD	H	H	L
V MUTE	H	H	H

CIRCUIT DESCRIPTION

③ -2 C Detect(Pin77) = H
• CK DET(Pin79) = L
VR-5900/5090/KRF-X9995D

INPUT	CTRL A (Pin66)	CTRL A2 (Pin64)	CTRL B (Pin65)
VIDEO1	L	L	H
VIDEO2	L	L	H
VIDEO3	L	L	H
VIDEO4	L	L	H
AV-AUX	L	L	H
DVD	L	L	H
V MUTE	H	H	H

③ -3 CK DET(Pin79) = H
VR-5900/5090/KRF-X9995D

INPUT	CTRL A (Pin66)	CTRL A2 (Pin64)	CTRL B (Pin65)
VIDEO1	L	H	H
VIDEO2	L	H	H
VIDEO3	L	H	H
VIDEO4	L	H	H
AV-AUX	L	H	H
DVD	L	H	H
V MUTE	H	H	H

④ CPST A(Pin53~59)
④ -1 Y Detect(Pin78) = H

INPUT	CPST AA (Pin59)	CPST AB (Pin58)	CPST AC (Pin57)	CPST AD (Pin56)	CPST AE (Pin55)	CPST AF (Pin54)	CPST AG (Pin53)
VIDEO1	L	L	L	L	L	L	L
VIDEO2	H	H	H	H	L	L	L
VIDEO3	L	H	L	L	L	L	L
VIDEO4	L	H	H	L	L	L	L
AV-AUX	H	L	L	L	L	L	L
DVD	L	H	L	L	H	L	L
V MUTE	L	H	L	L	H	H	H

④ -2 Y Detect(Pin78) = L

INPUT	CPST AA (Pin59)	CPST AB (Pin58)	CPST AC (Pin57)	CPST AD (Pin56)	CPST AE (Pin55)	CPST AF (Pin54)	CPST AG (Pin53)
VIDEO1	L	L	L	L	L	L	H
VIDEO2	H	H	H	H	L	L	H
VIDEO3	L	H	L	L	L	L	H
VIDEO4	L	H	H	L	L	L	H
AV-AUX	H	L	L	L	L	L	H
DVD	L	H	L	L	H	H	L
V MUTE	L	H	L	L	H	H	H

⑤ CPST B(Pin48~50)

INPUT	CPST BA (Pin50)	CPST BB (Pin49)	CPST BC (Pin48)
VIDEO1	L	L	L
VIDEO2	L	H	L
VIDEO3	H	L	L
VIDEO4	H	H	L
DVD	L	H	H

10. Key Matrix

✻ The number in the ( ) is pin number of FL driver (X25,IC1).

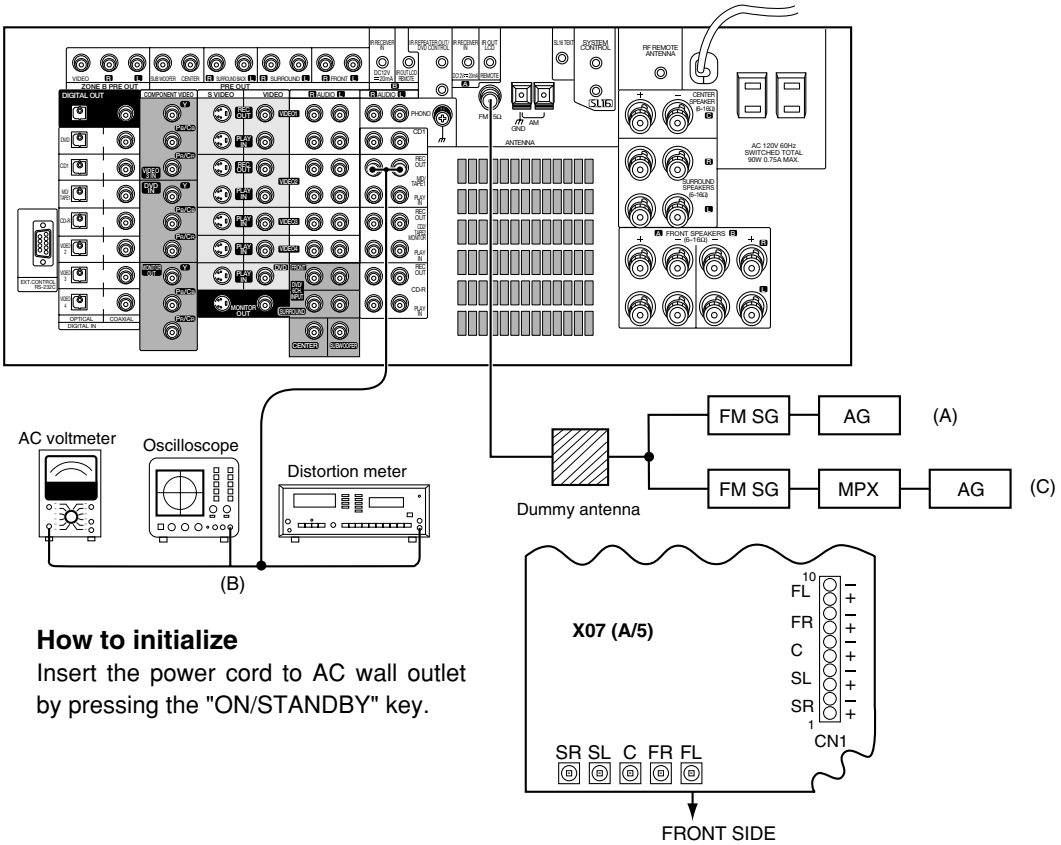
✻ KRF-X9995D/VR-5900 only

	Key	
Key 1(Pin26)	INPUT UP	✻ OPEN/CLOSE
Key 2(Pin27)	AUTO	BAND
Key 3(Pin28)	P. CALL UP	MEMORY
Key 4(Pin29)	P. CALL DOWN	MULTI CONT. UP
Key 5(Pin30)	SOUND/SET UP	MULTI CONT. DOWN
Key 6(Pin31)	LISTEN MODE	THX
Key 7(Pin32)	INPUT MODE	CD2/TAPE2 MONI.
Key 8(Pin33)	SPEAKER A	SPEAKER B

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION :		**SELECTOR : FM**	***Adjust NO.1 and NO.2 repeatedly.**				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN2 ① and CN2 ② (X05)	MONO 98.0MHz	L4 (X05-)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X05-)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT(RF FRONT END : A1) (X05-)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 30dBf (ANT. input)	–	MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
AUDIO SECTION		**SPEAKER : A**		**PREOUT : OFF**		**PROLOGIC : ON**	
<1>	IDLE CURRENT	–	Connect a DC voltmeter across each T.P. CN1(⑨, ⑩) FLch CN1(⑤, ⑥) Cch CN1(⑦, ⑧) FRch CN1(①, ②) SRch CN1(③, ④) SRch X07(A/5)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) X07(A/5)	Adjust every potentiometer 10 minutes later after turned the power on.	

SYSTEM CONNECTIONS



How to initialize

Insert the power cord to AC wall outlet by pressing the "ON/STANDBY" key.

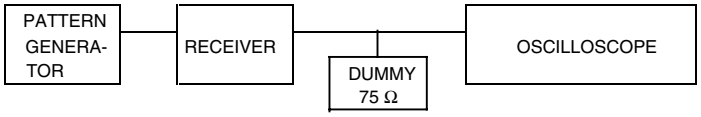
ADJUSTMENT

Adjustment of Sub Color and Contrast (X35, VR1, VR2)

Except KRF-X7775D/VR-5080

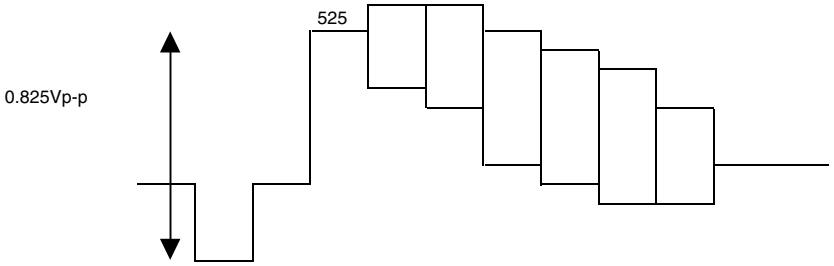
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	ALIGNMENT POINTS	ALIGNMENT FOR	FIG.
1	SUB COLOR	PAL 75% COLOR BAR (NO SET UP)	Connect a component video output(Y) to oscilloscope with 75Ω.	VR2	(Adjust an amplitude of video signal.) 0.825Vp - p	FIG.1
2	CONTRAST	PAL 75% COLOR BAR (NO SET UP)	Connect a component video output(Cb,Cr) to oscilloscope with 75Ω.	VR1	(Adjust an amplitude of video signal.) ±0.525Vp - p	FIG.2

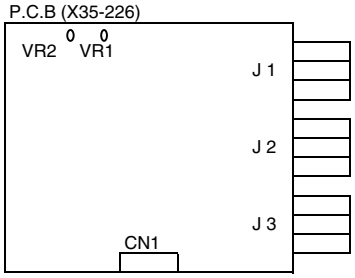
INSTRUMENTS CONNECTION



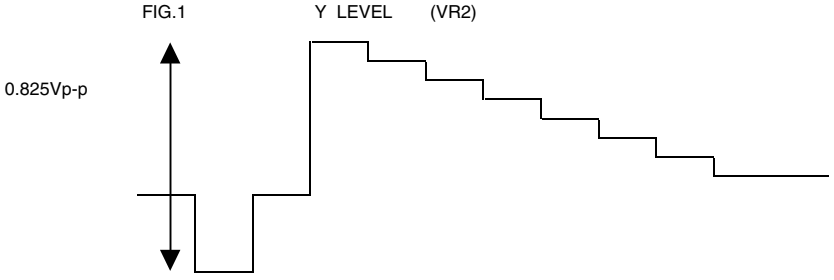
INPUT SIGNAL : 75% COLOR BAR SIGNAL

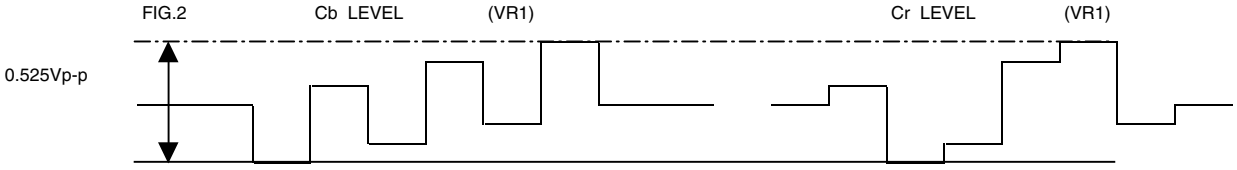
PARA METER		WHITE	YELLO	CYAN	GREEN	MAGENTA	RED	BLUE
LUMINANCE LEVEL	mV	525	465	368	308	217	157	60
	IRE							
CHROMA LEVEL	mV	0	470	664	620	620	664	470
	IRE							
CHROMA PHASE (deg)	+V		167	283	241	61	103	347
	-V		193	77	119	299	257	13



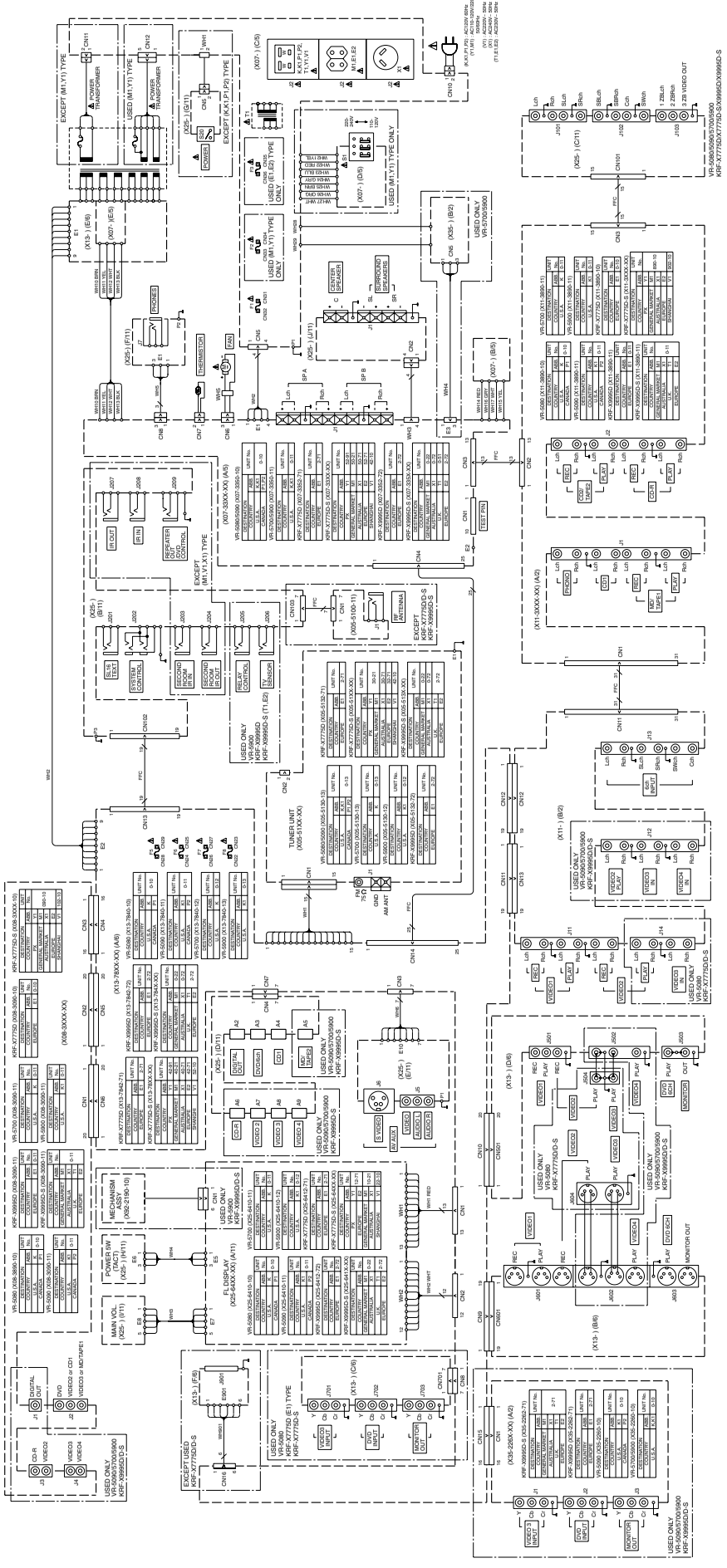


ADJUSTMENT OUTPUT SIGNAL :



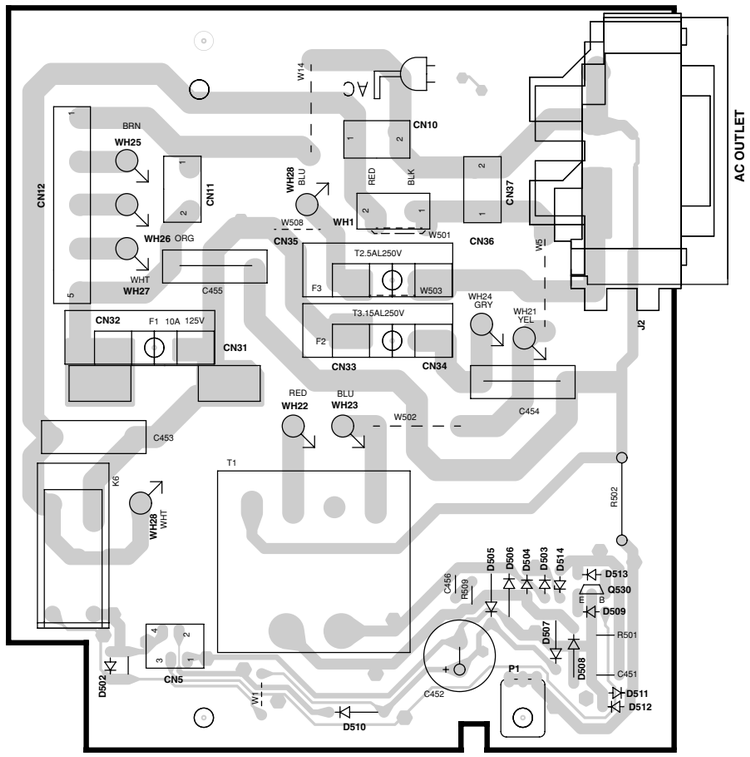


WIRING DIAGRAM

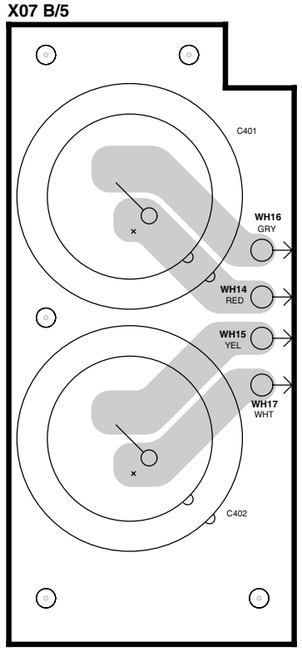


PC BOARD (Component side view)

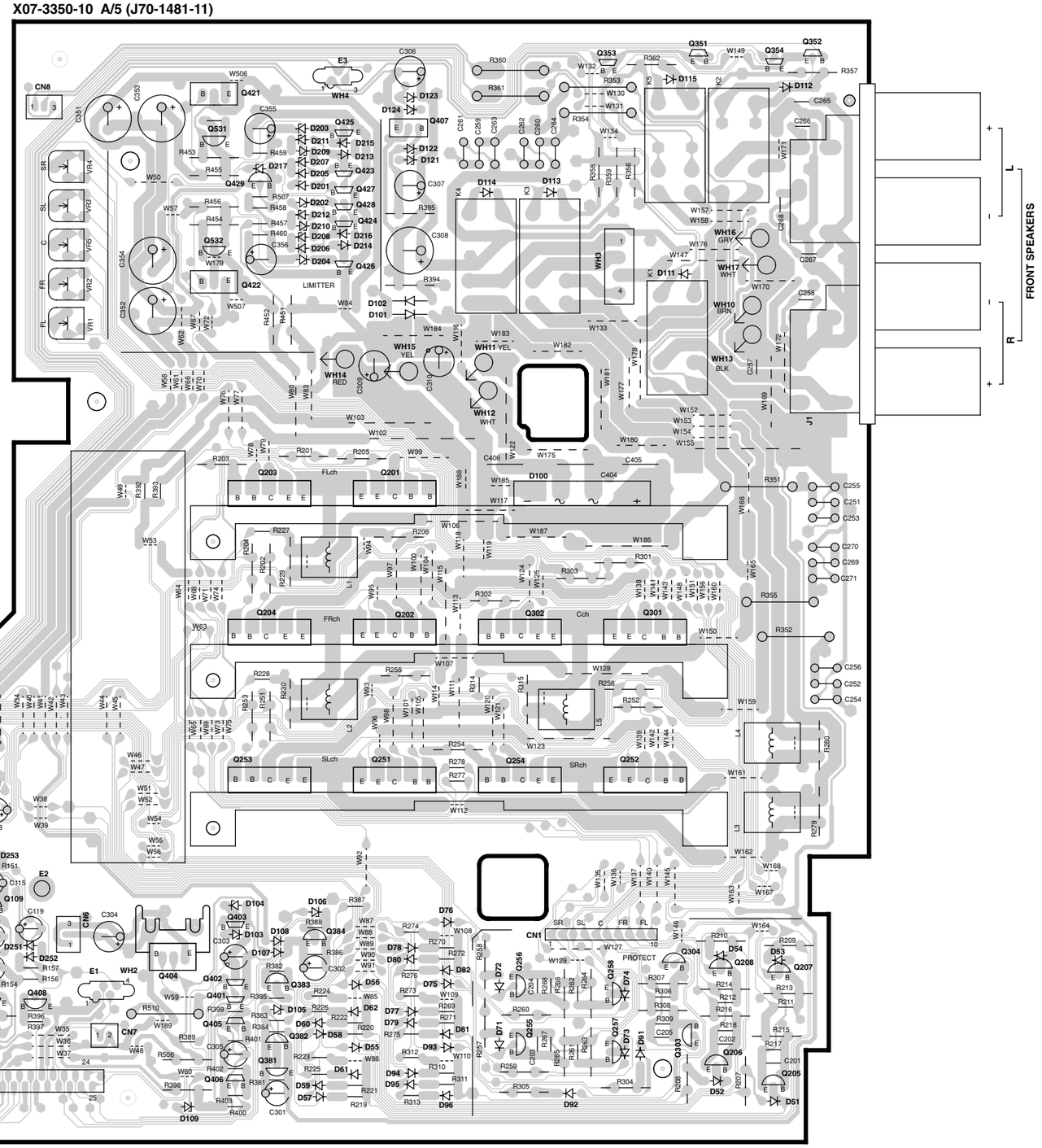
X07 C/5



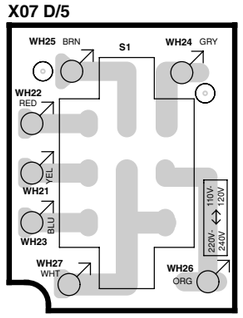
X07 B/5



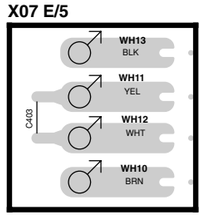
X07-3350-10 A/5 (J70-1481-11)



X07 D/5



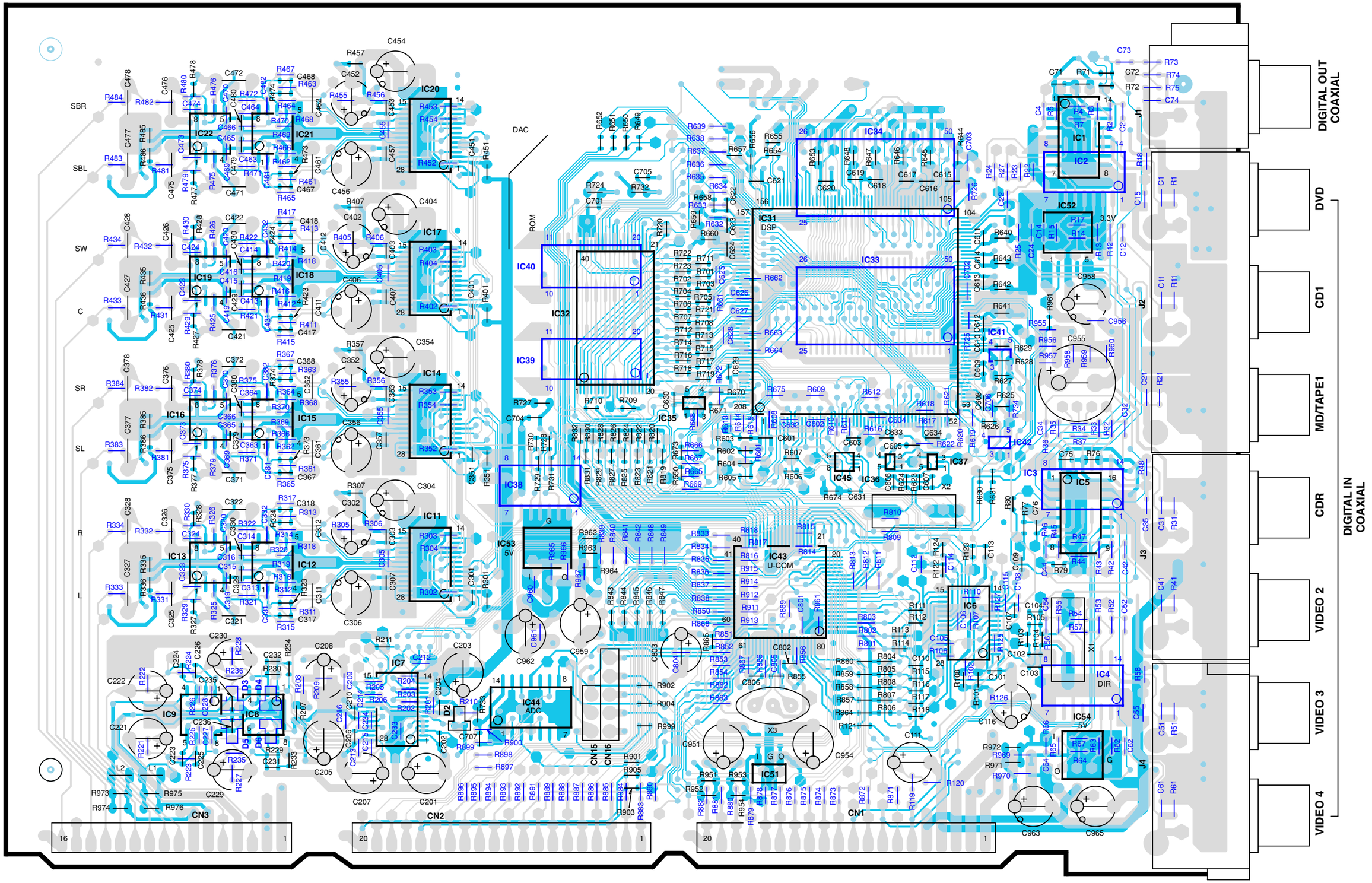
X07 E/5



Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

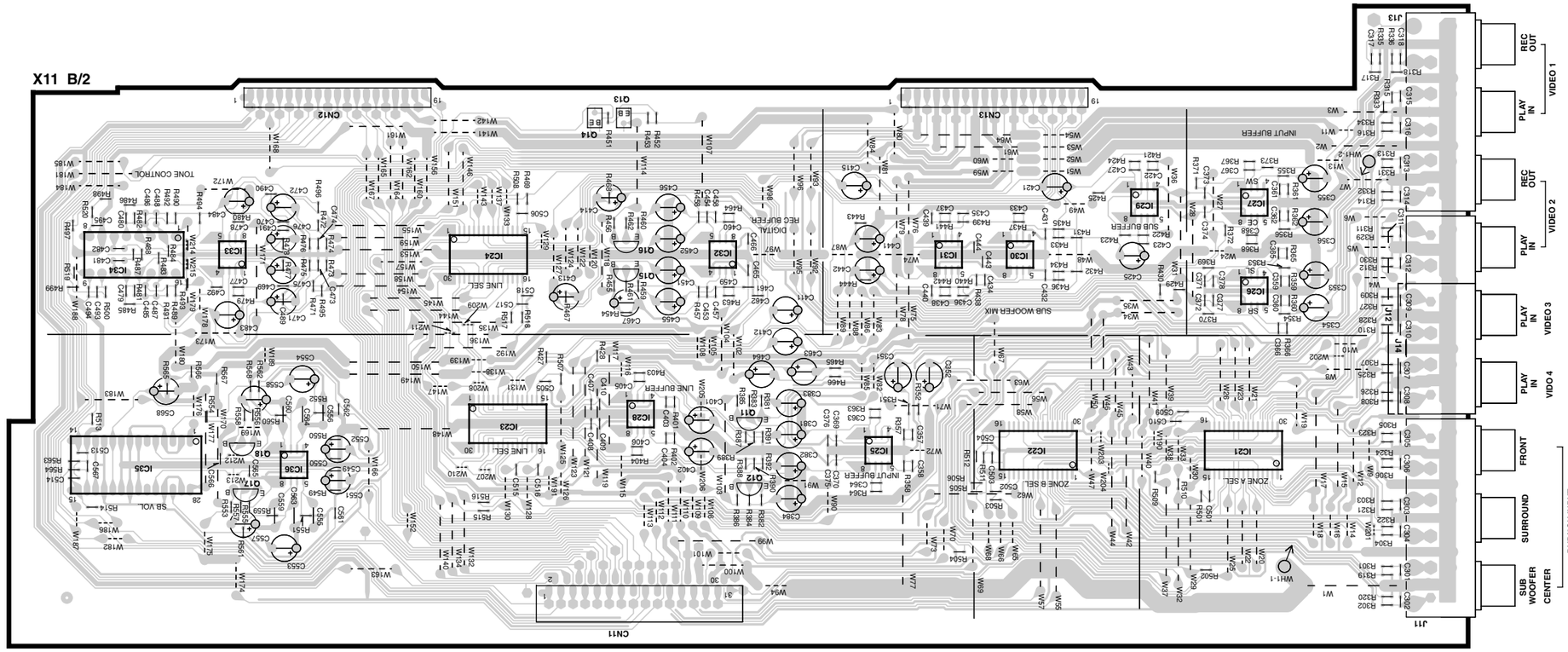
X08-3090-11 (J70-1482-12)



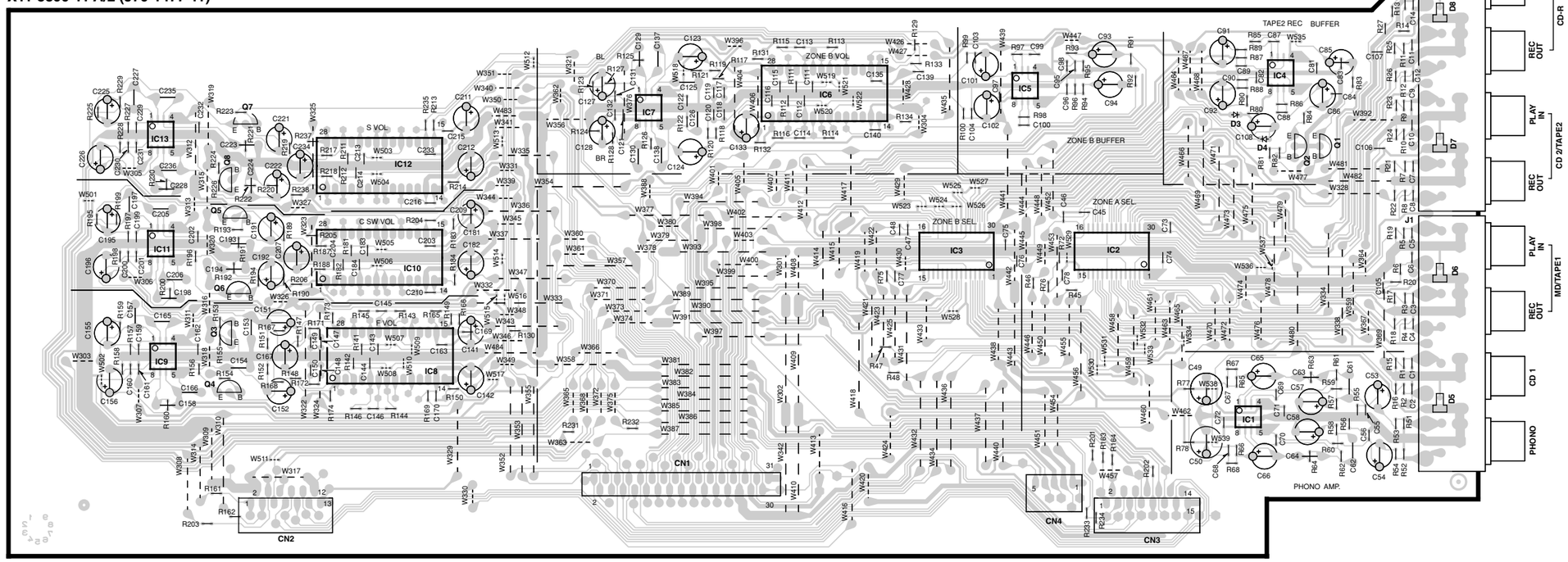
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

X11 B/2



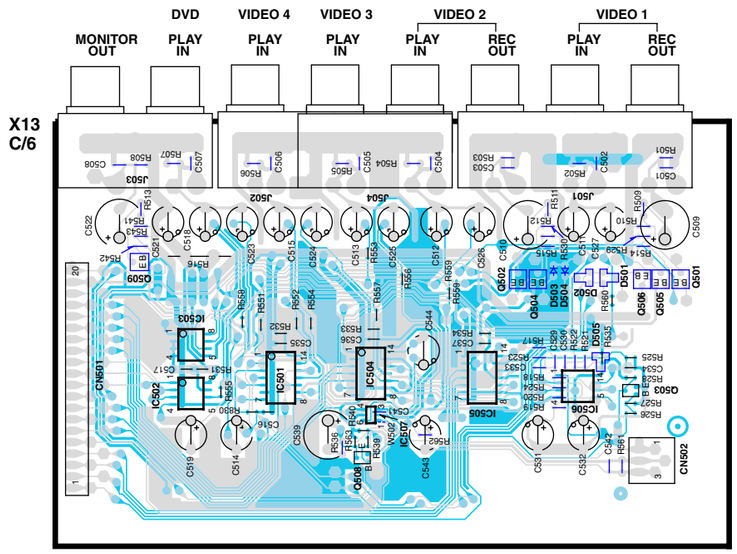
X11-3890-11 A/2 (J70-1477-11)



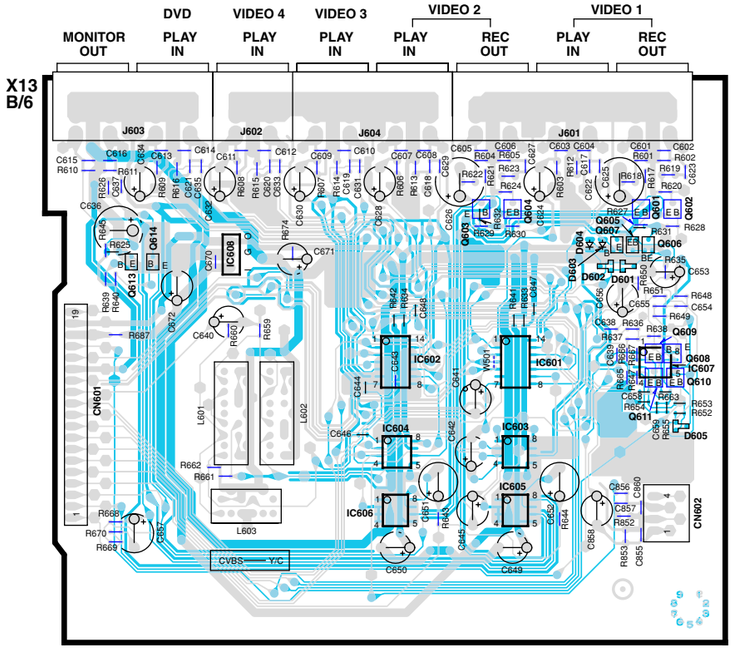
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

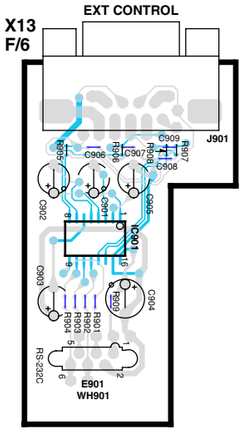
X13 C/6



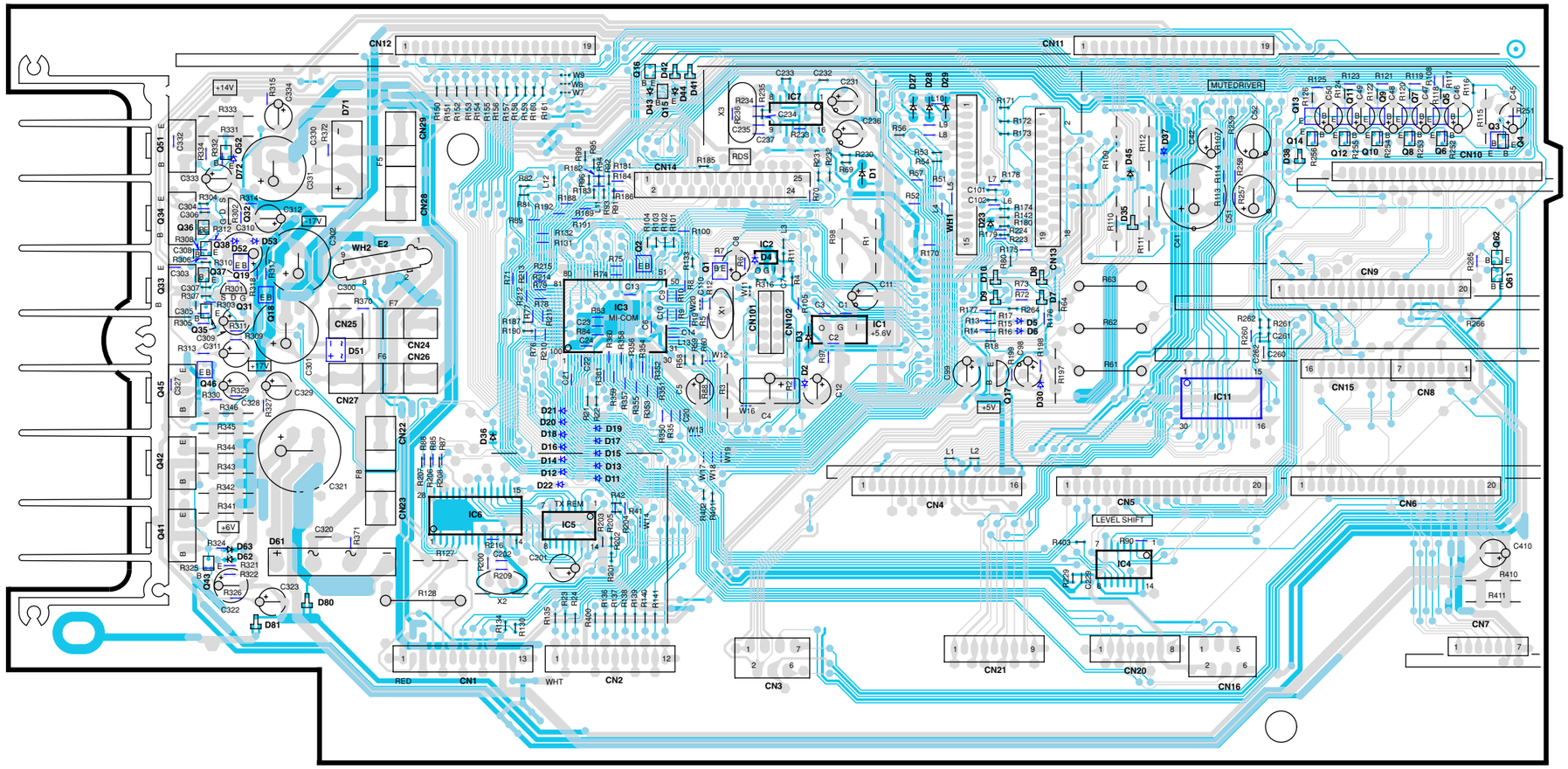
X13 B/6



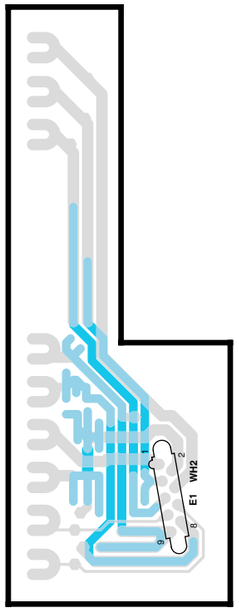
X13 F/6



X13-7840-11 A/6 (J70-1472-11)



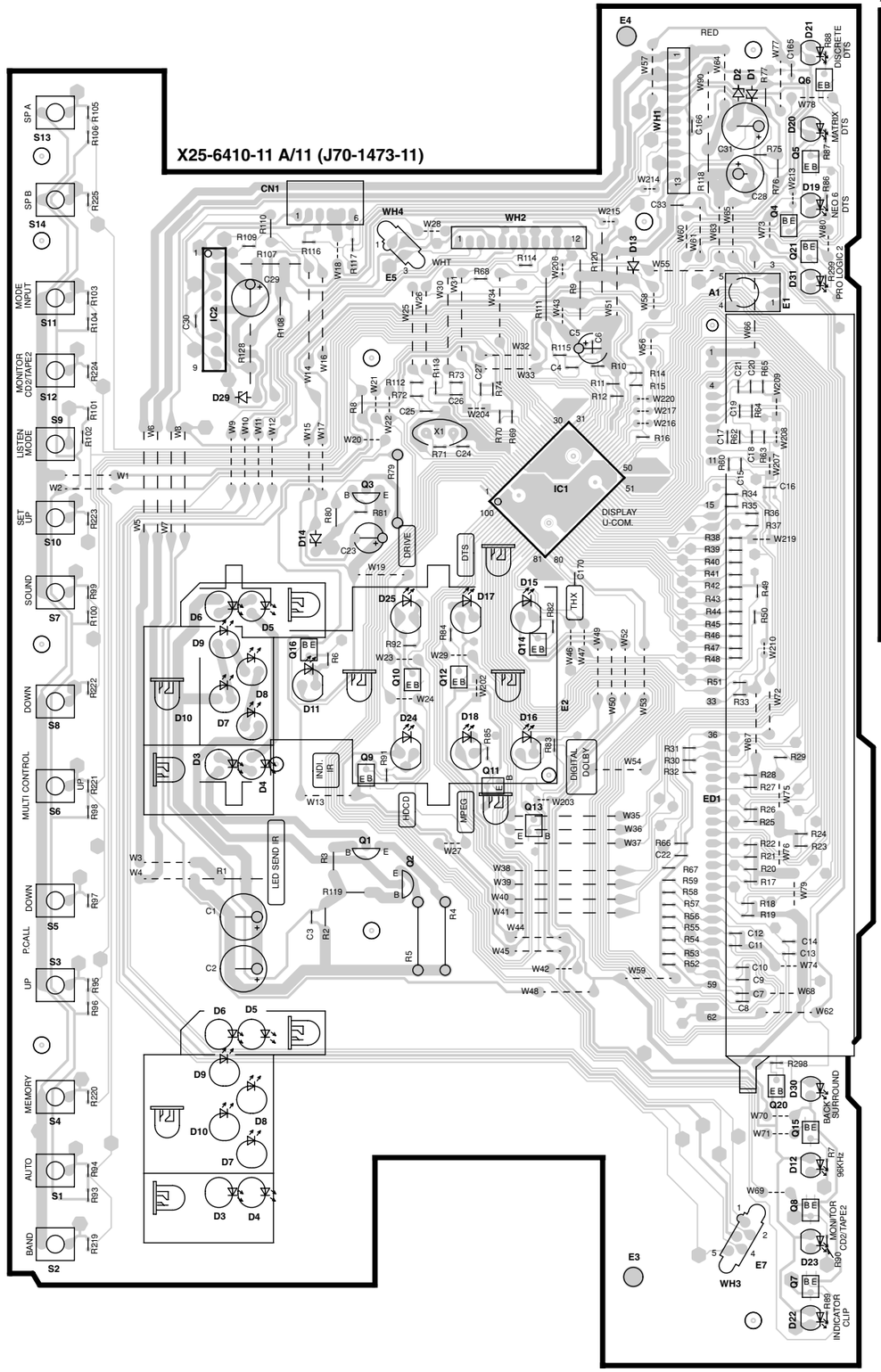
X13 E/6



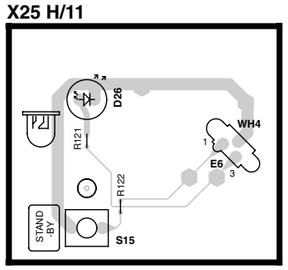
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

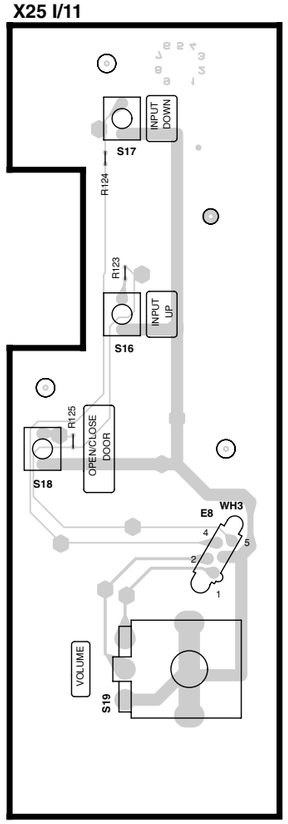
X25-6410-11 A/11 (J70-1473-11)



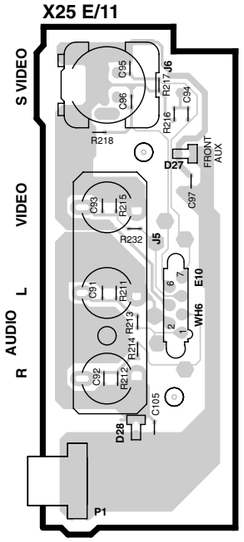
X25 H/11



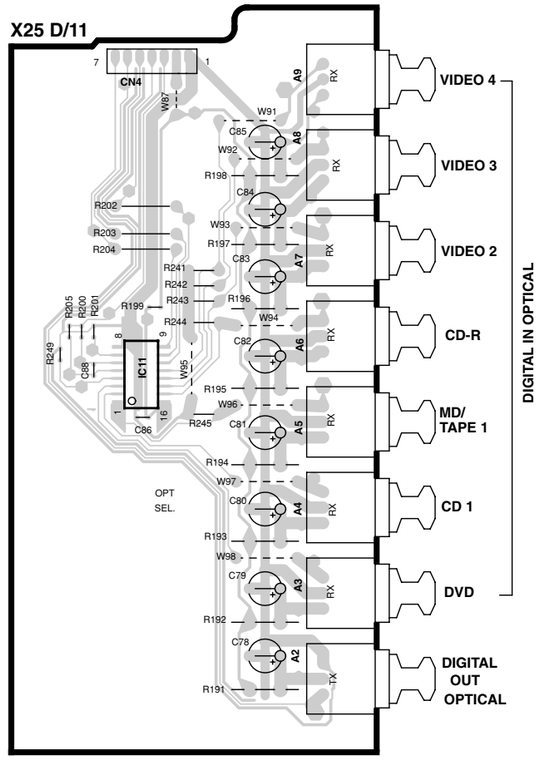
X25 I/11



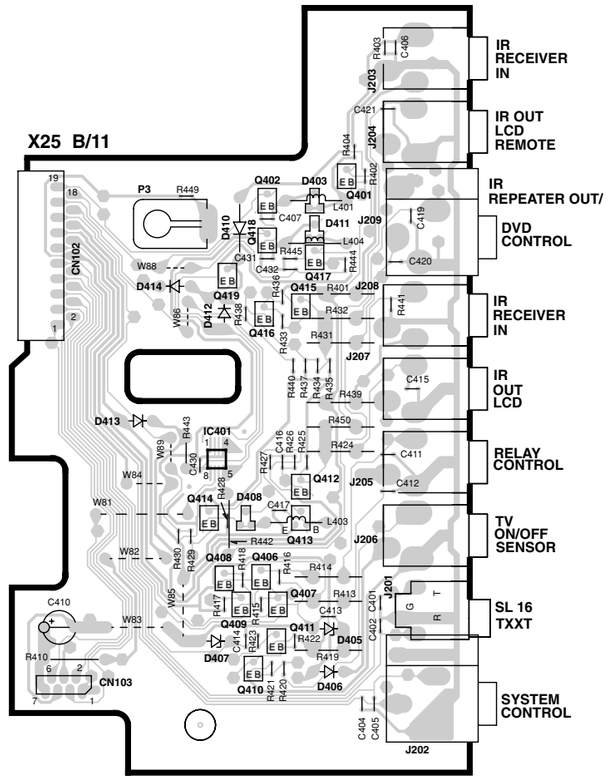
X25 E/11



X25 D/11



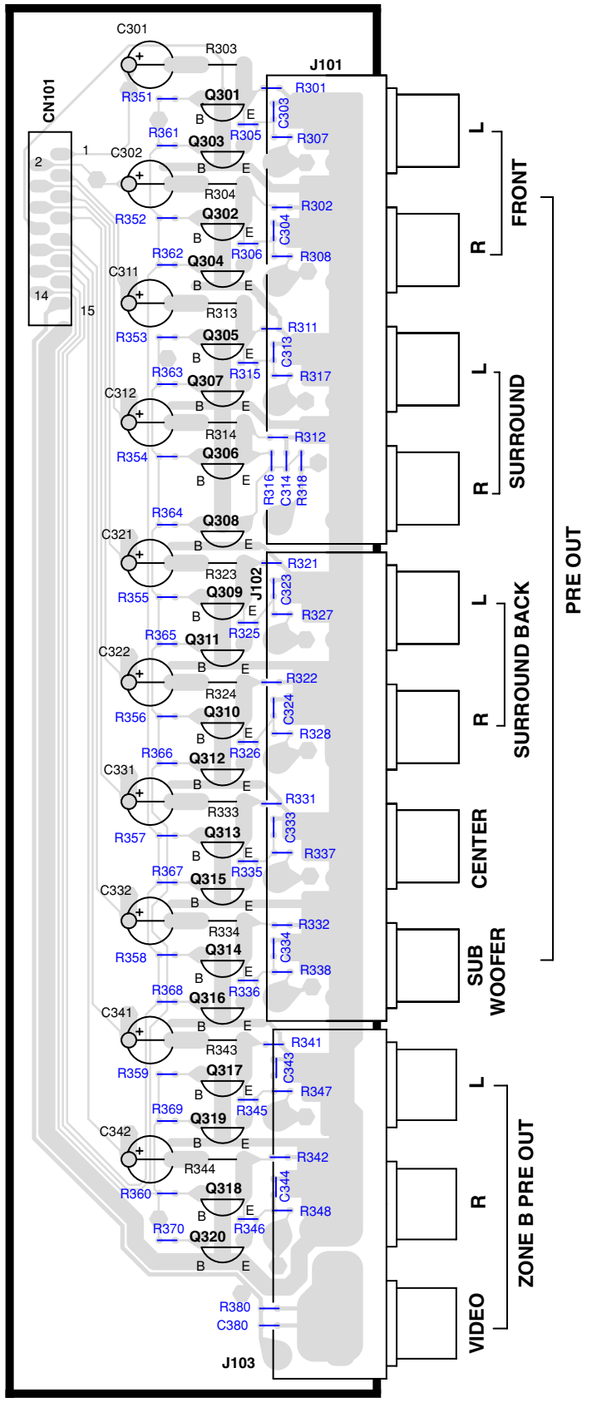
X25 B/11



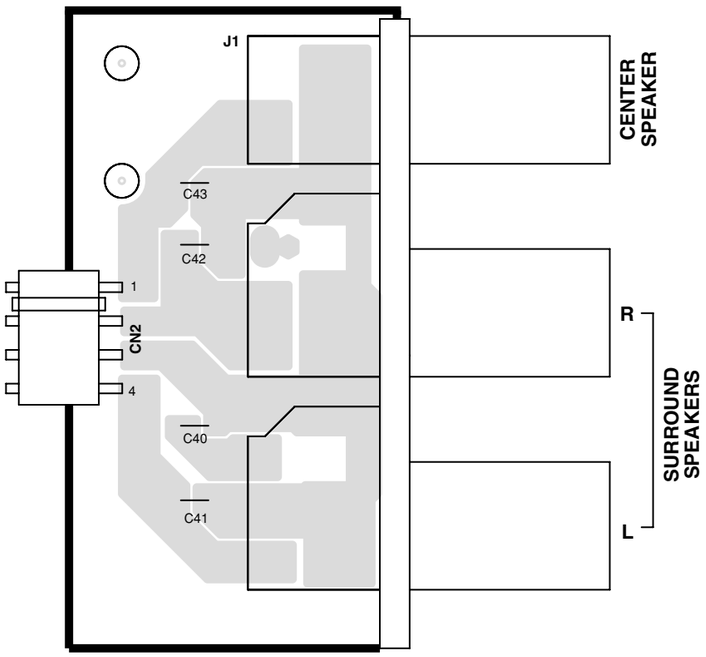
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

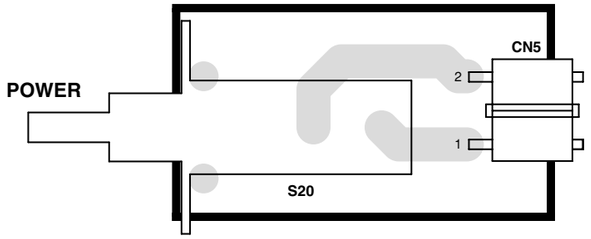
X25 C/11



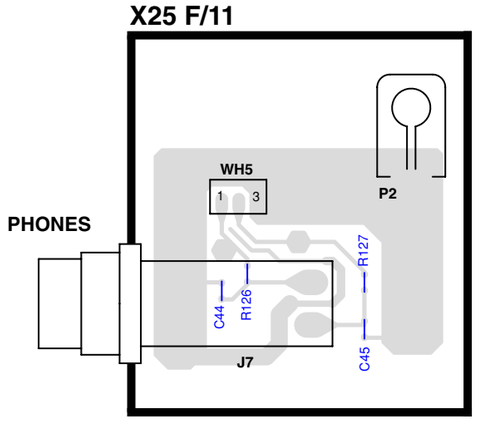
X25 J/11



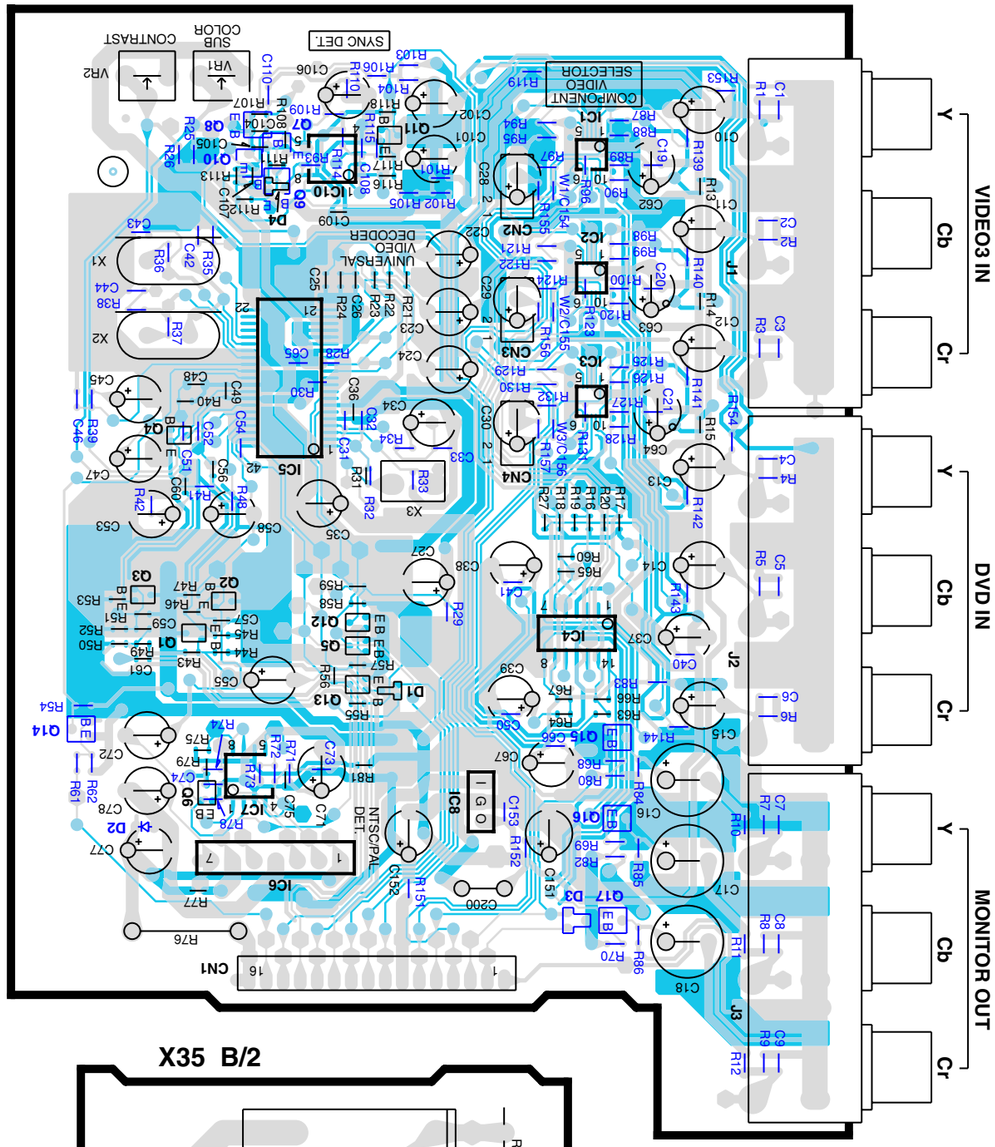
X25 G/11



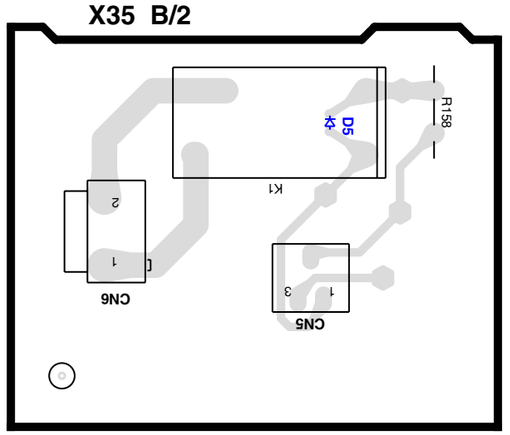
X25 F/11



X35-2260-10 A/2 (J70-1475-11)



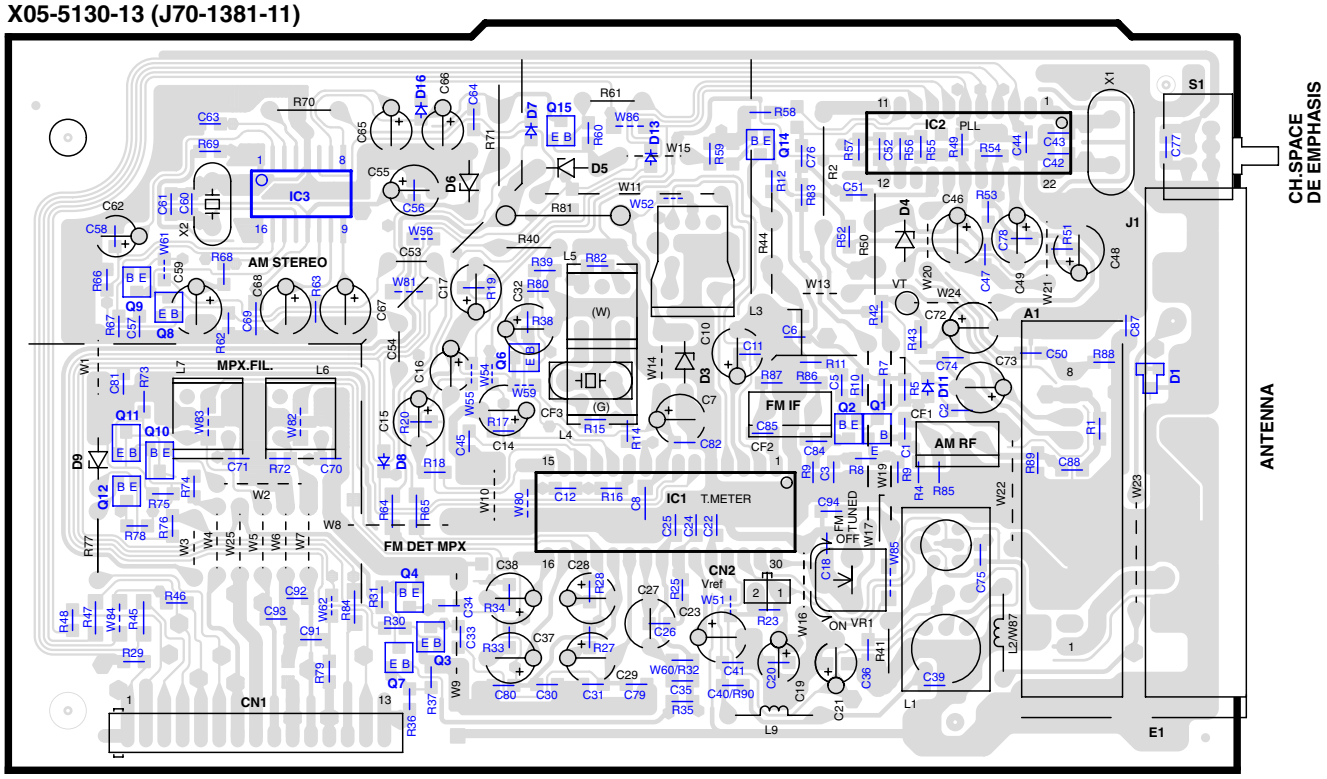
X35 B/2



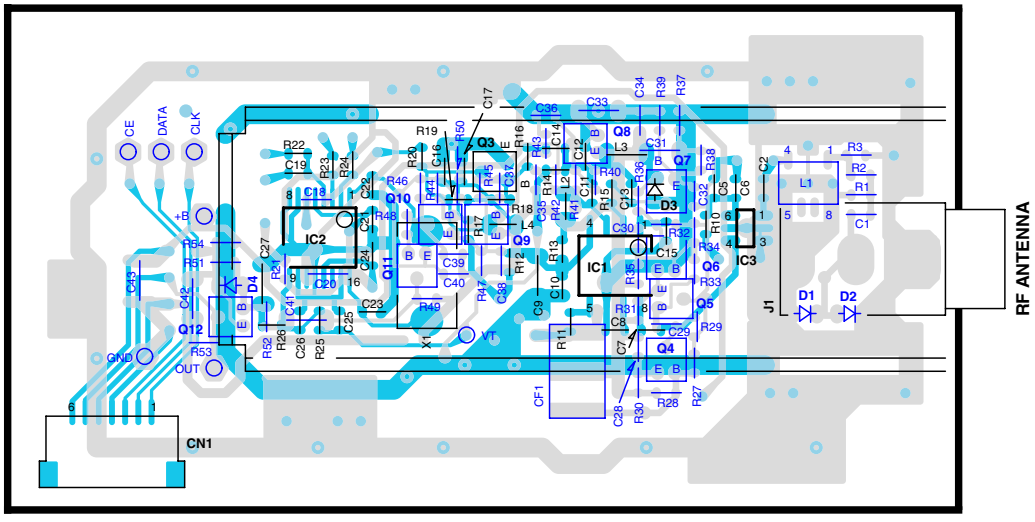
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

X05-5130-13 (J70-1381-11)

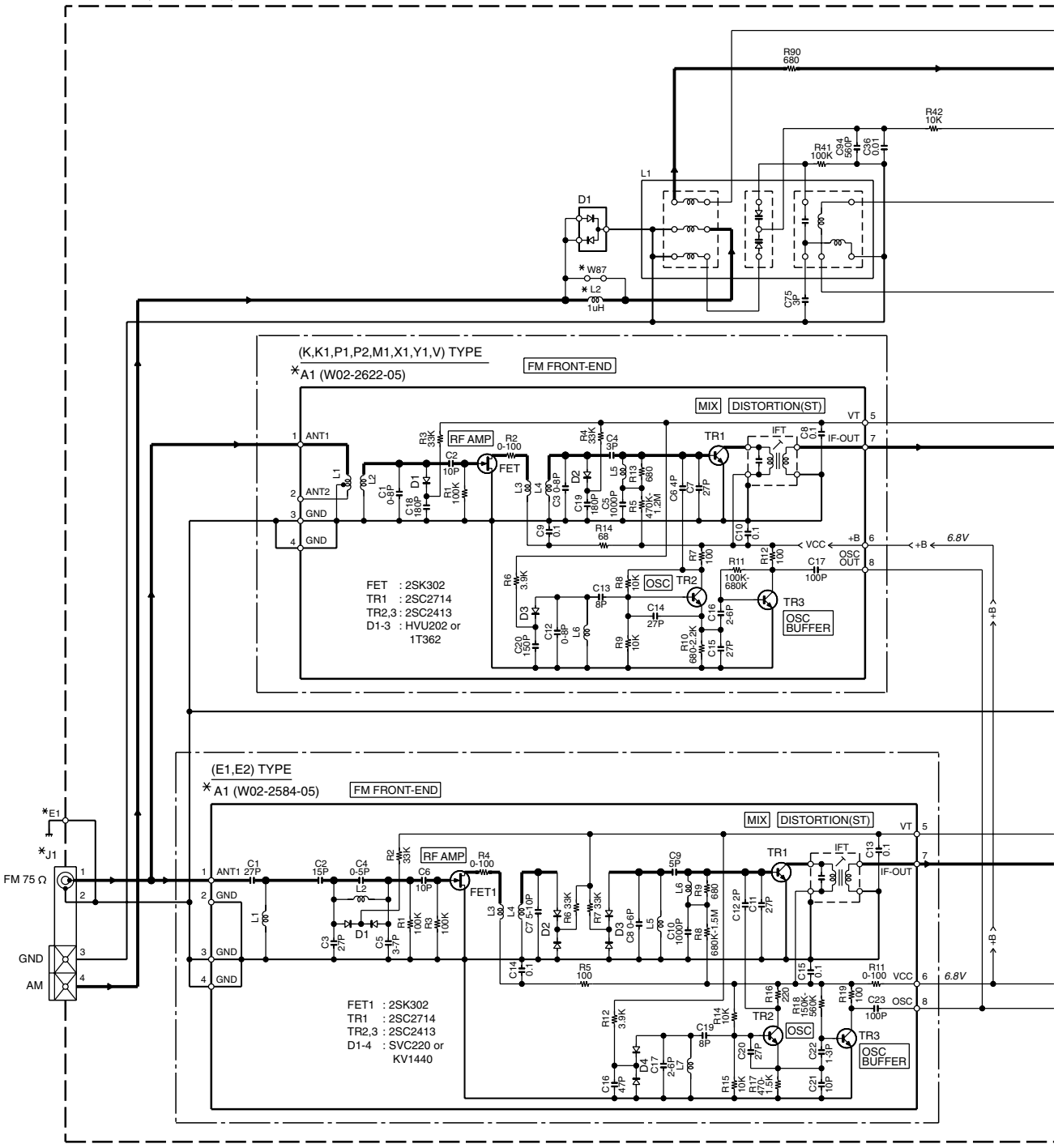


X05-5100-11 (J70-1411-32)



Refer to the schematic diagram for the value of resistors and capacitors.

TUNER UNIT (X05-51XX-XX)



VR-5080/5090 (X05-5130-13)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ	A1	C25	C30, 31	C70, 71,77	C74, 92,93	C79, 80	CF1,2	E1	J1	L2, 6,7	R8, 11	R23	R25	R27, 28	R29	R72, 73	S1	W56	W82, 83,87
COUNTRY	ABB.																					
U.S.A.	K,K1	0-13	NO	W02-2622	180P	0.033	NO	YES	1000P	L72-0596(MS2)	F10-1108	E70-0141	NO	33	4.7K	18K	6.8K	NO	33K	NO	NO	YES
CANADA	P1,P2																					

KRF-X7775D (X05-5132-71)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	A1	C25	C30, 31	C70,71, 78,82	C74,77, 92,93	C79, 80	CF1,2	E1	J1	L2, 6,7	R8	R11	R23	R25	R27, 28	R29	R72, 73	S1	W56	W82, 83,87
COUNTRY	ABB.																							
EUROPE	E1	2-71	YES	NO	W02-2584	180P	0.022	YES	NO	4700P	L72-0536(MS3)	F10-1109	E70-0080	YES	10	22	15K	27K	4.3K	NO	3.9K	NO	NO	NO

KRF-X7775D-S (X05-51XX-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	A1	C25	C30, 31	C70, 71	C74, 92,93	C77	C79, 80	CF1,2	E1	J1	L2, 6,7	R8	R11	R23	R25	R27, 28	R29	R72, 73	S1	W56	W82, 83,87
COUNTRY	ABB.																								
SHANGHAI	V	42-10	NO	YES	W02-2622	330P	0.022	NO	YES	YES	1500P	L72-0531(MA5)	F10-1108	E70-0080	NO	33	33	4.7K	18K	6.8K	YES	33K	YES	YES	YES
GENERAL MARKET	M1	30-21																							
PX	Y1																								
AUSTRALIA	X1	30-71		NO						NO	1200P							6.8K			NO		NO	NO	
EUROPE	E2	32-71	YES		W02-2584	180P		YES	NO		4700P	L72-0536(MS3)	F10-1109		YES	10	22	15K	27K	4.3K		3.9K			NO

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

TUNER UNIT (X05-51XX-XX)

CHANNEL FREQUENCY (MHz)

CHANNEL	1	2	3
OSC FREQUENCY	417.3	414.3	411.3

VT VOLTAGE

CHANNEL	1	2	3
VT VOLTAGE	2.40 ± 0.5	2.35 ± 0.5	2.30 ± 0.5

IC1 : LA1837
IC2 : LC72131

Q1,3,4,6,7 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q2,12,14 : 2SA1576A(R,S) or 2SA1586(Y,GR)
Q10,11 : 2SD1757K
D1 : DA204U or 1SS302 or MA143A
D3 : RD8.2ES(B2) or MTZJ8.2(B)
D4 : RD5.1ES(B2) or MTZJ5.1(B)
D5 : RD2.7ES(B2) or MTZJ2.7(B)
D8,11,13 D9 : MA111
D9 : RD3.3ES(B2) or MTZJ3.3(B)

SIGNAL LINE
GND LINE
+B LINE
−B LINE

(X05-5100-11)

IC1 : UPC1687G
IC2 : LV2105V
IC3 : UPC2748T-E3

Q3 : 2SC5065(O,Y)
Q4-6 : 2SC4178(F13,F14)
Q7,11,12 : 2SB1218A(Q,R) or 2SA1576A(R,S)
Q8-10 : 2SD1819A(Q,R) or 2SC4081(R,S)

D1,2,4 : MA111
D3 : KV1832E

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

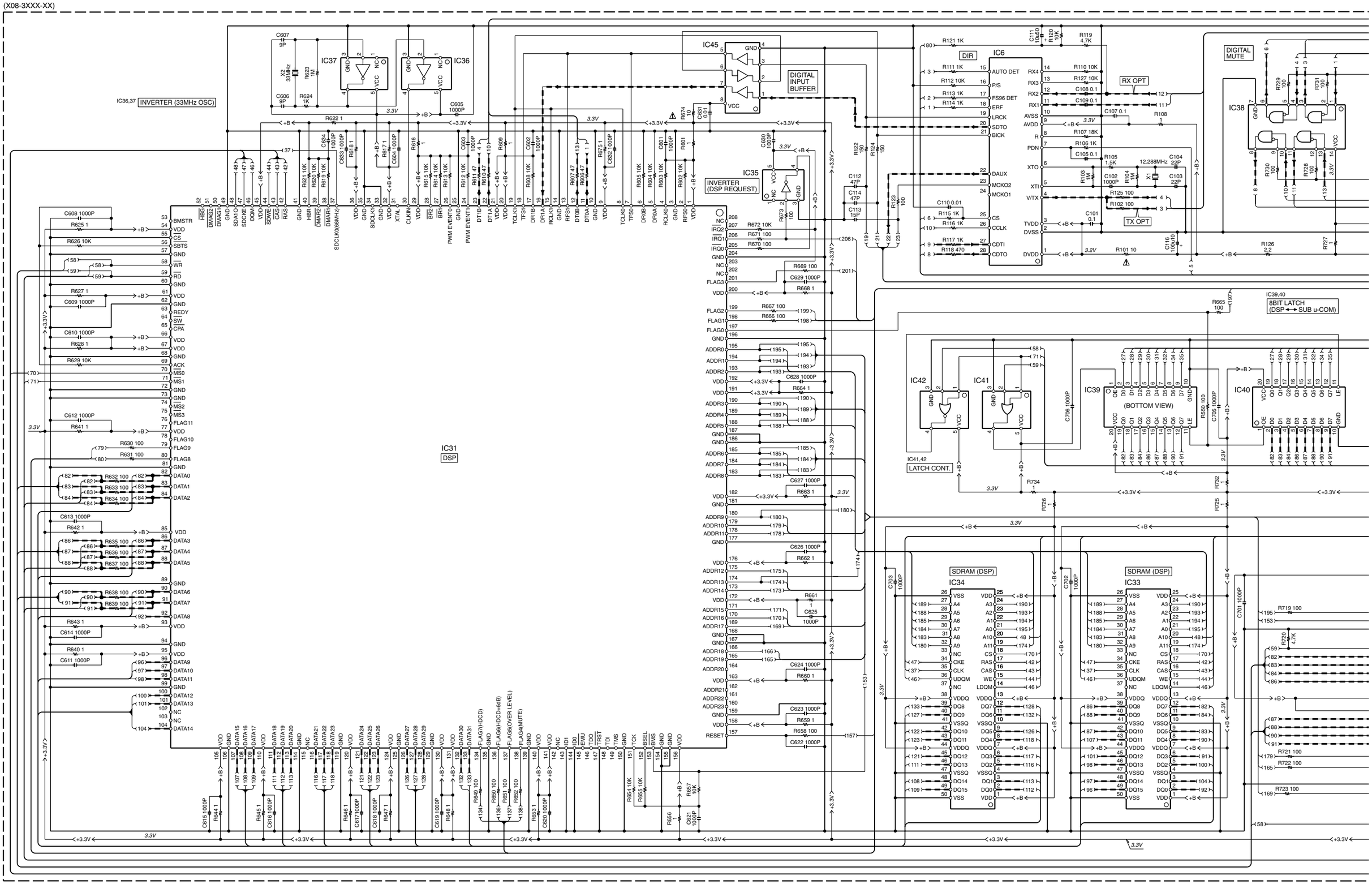
VR-5080/5090/5700/5900 (1/6)
KRF-X7775D/X7775D-S/X9995D/X9995D-S (1/6)

Y05-4210-10

KRF-X7775D/X7775D-S/VR-5080/5090

KENWOOD

(X08-3XXX-XX)



The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

(X08-3XXX-XX)

IC43
SUB u-COM
(DSP/VIDEO CONT.)

IC32 ROM

IC11 D/A

IC8,9
A/D INPUT
BUFFER

IC7 A/D

IC8 (2/2)

IC9 (2/2)

IC8 (1/2)

IC9 (1/2)

IC12,13
DAC OUT
FILTER

IC12 (1/2)

IC12 (2/2)

IC13 (1/2)

IC13 (2/2)

Lch

Rch

IC44
LEVEL
CHANGE
OVER
(5.0V→3.3V)

+3.3V AVR
(SUB u-COM)

IC51

+3.3V AVR
(DSP/DIR/DAC/ADC)

IC52

+5V AVR
(DAC/ADC)

IC53

CN2

CN1

AZ-7

BA-7

(X08-3XXX-XX)

VR-5080 (X08-3890-10)

DESTINATION		UNIT	Ⓐ Ⓑ	Ⓒ	J2
COUNTRY	ABB.	No.			
U.S.A.	K	0-10	NO	YES	E63-1129-05
CANADA	P1				

VR-5090 (X08-3090-11)

DESTINATION		UNIT	Ⓐ Ⓑ	Ⓒ	J2
COUNTRY	ABB.	No.			
U.S.A.	K1	0-11	YES	NO	E63-1130-05
CANADA	P2				

KRF-X7775D (X08-3090-XX)

DESTINATION		UNIT	Ⓐ Ⓑ	Ⓒ	J2
COUNTRY	ABB.	No.			
EUROPE	E1	0-10	NO	YES	E63-1129-05

KRF-X7775D-S (X08-3XXX-10)

DESTINATION		UNIT	Ⓐ Ⓑ	Ⓒ	J2
COUNTRY	ABB.	No.			
PX	Y1	090-10	NO	YES	E63-1129-05
GENERAL MARKET	M1				
AUSTRALIA	X1				
EUROPE	E2				
SHANGHAI	V	102-10			

IC1-4 : TC74HCU04AF
IC5 : TC74HC151AF
IC6 : AK4112BVF
IC7 : AK5383VF
IC8,9,12,13,15,16,18,19, 21,22 : NJM4565MD
IC11,14,17,20 : AK4393VF or AK4393-VF
IC31 : ADSST-A-3525
IC32 : 49BV008A1ALA
IC33,34 : HY57V16160DTC
IC35 : TC7S04F
IC36,37 : TC7SHU04FU
IC38 : TC74HC08AF
IC39,40 : TC74LVX573F
IC41 : TC7SH32F
IC42 : TC7SH02F
IC43 : uPD784224K507
IC44 : TC74VHC125F
IC45 : TC7WH34FK
IC51 : uPC29L33T
IC52 : PQ3DZ13
IC53,54 : uPC29M05T

D3-6 : DA204U or 1SS302

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

SIGNAL LINE
GND LINE
+B LINE
−B LINE

VR-5080/5090 (2/6)
KRF-X7775D/X7775D-S (2/6)

KRF-X7775D/X7775D-S/VR-5080/5090

KENWOOD

AT | AU | AV | AW | AX | AY | AZ | BA | BB | BC

1 2 3 4 5 6 7

X05-513/514 -CN1 1/6 A

X08- CN3 2/6 E

(X13-78XX-XX) (A/6)

DX-7

CN14: REC MUTE, PRE ZB MUTE, PRE S MUTE, F/C/SW MUTE, SP B/S MUTE, RELAY TR, -35V, RELAY GND, FAN +B, RELAY CS, RELAY A, RELAY HP, G. GND, RELAY B, RELAY POWER, U-COM GND, U-COM +12V, F.OFF, THERM SW, V. PROTECT, I. PROTECT, 10W, 1W, FAN H/L, FAN ON/OFF

CN13: RF DATA, RF CLK, RF CE, SYNC DATA, SYNC BUSY, TEXT RX, TEXT TX, TV SENSOR

DSP +6V AVR

VIDEO +6V AVR

+17V AVR

17V FIRST OFF

-17V AVR

+14V AVR

OdB/-10dB | REC MUTE | PRE ZB MUTE | SP B/S MUTE | PRE S MUTE | F/C/SW MUTE

5.0V LEVEL SHIFT NON INV.

IC4

IC5 (BOTTOM VIEW)

SHIFT REGISTER (SERIAL → PARALLEL)

IC6 455K REM TX U-COM

X2 3.64MHz

EB-3

EV-4

EV-3

AE-7

AH-7

EH-4

X08- CN2 2/6 C

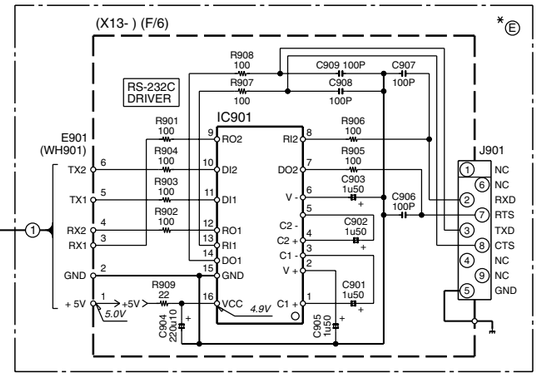
X08- CN1 2/6 D

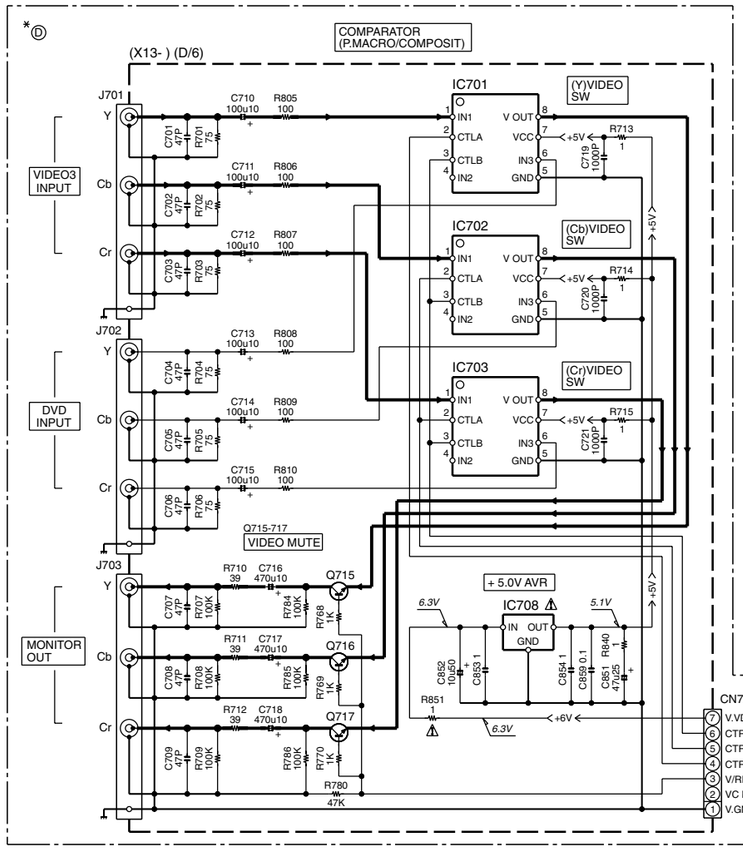
IC1 : TA78057S
IC2 : S-80740AL-A4 or S-80840ALUP
IC3 : UPD784217A516
IC4 : TC74HCT7007AF
IC5 : TC74HC164AF
IC6 : UPD17215GT-737
IC7 : LC72723M

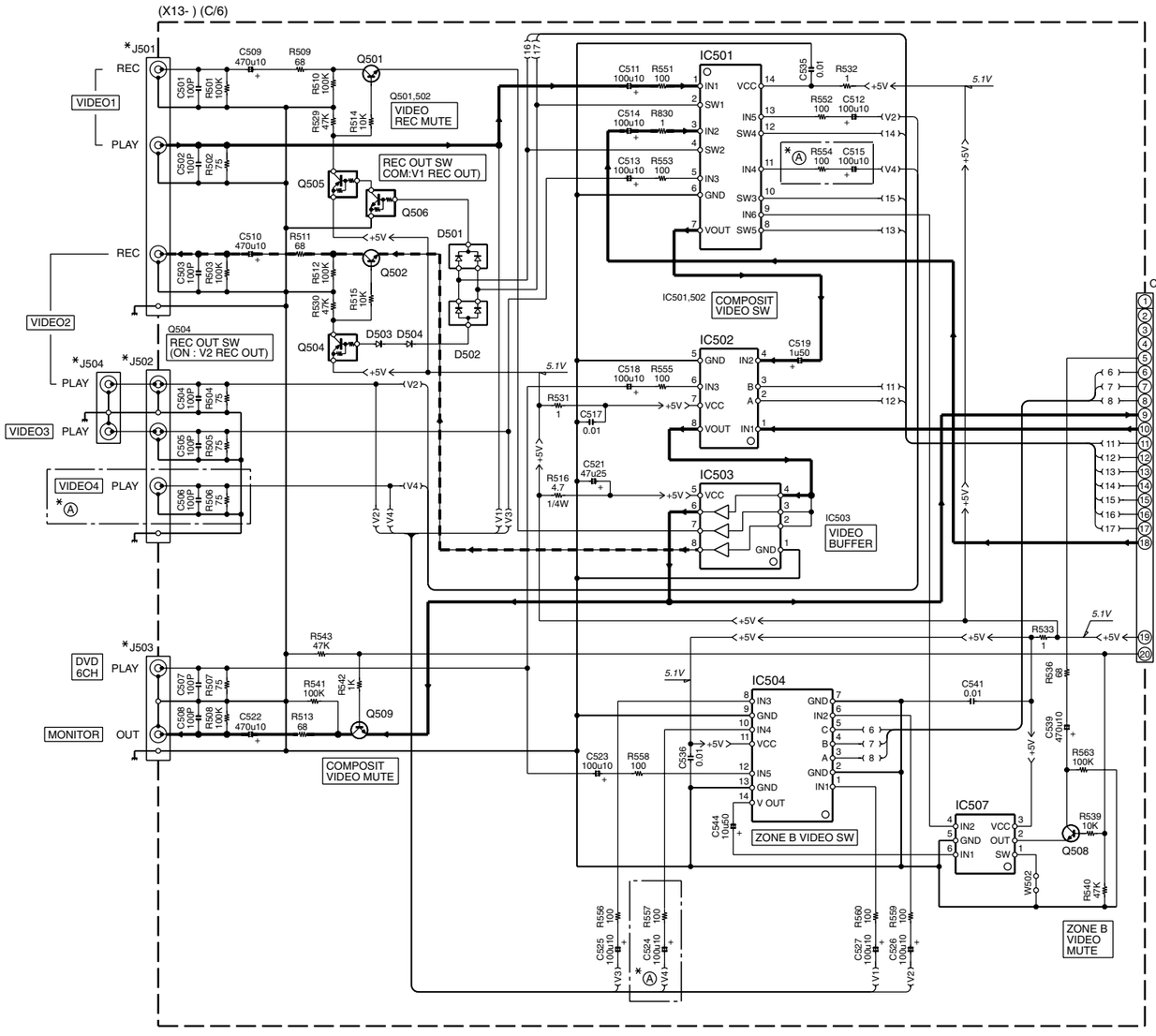
Q1,35,37,43,46,52 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q2,16,61 : DTC124EUA or UN5212
Q3,5,7,9,11,13 : DTA113ZUA or UN5119
Q4,6,8,10,12,14 : DTC143TUA or UN5216
Q15,18,62 : DTA143TUA or UN5116
Q17 : 2SC3940A(R,S)
Q19 : 2SC4213(B)
Q31,32 : 2SK246(Y,GR)
Q33,34,41,42,45 : 2SB1375
Q36,38 : 2SA1576A(R,S) or 2SA1586(Y,GR)
Q51 : 2SD2012

D1,3,27-29 : U1BC44
D2,4-6,11-23,36,37, 43-45,63 : MA111
D7,9,35,38 : DAN202U or 1SS301
D8,10,41,42 : DAP202U or 1SS300
D30 : UDZS5.6B or UDZ5.6B
D51 : S1ZB20(4072)
D52 : UDZS8.2B or UDZ8.2B
D53 : UDZS7.5B or UDZ7.5B
D61 : D4SBL20UF03
D62 : UDZS6.2B or UDZ6.2B
D71 : KBP02ML-6127
D72 : UDZ16B
D80,81 : DA204U or 1SS302

EM-2
L-5
CT-5
CT-6
AN-7
EM-5
DL-6
IC3 MAIN u-COM
CH. SPACE SW
RESET PULSE
RDS
+5V AVR
+5.6V AVR
VIDEO MUTE
MUTE
FROM DAC OUT
(X13-78XX-XX) (A/6)







VR-5080 (X13-7840-10) (A/6)

DESTINATION		UNIT No.	Ⓕ	CN8, 16	CN15	F5-7	F8	L10	Q2	R58-63,101,105, 142,170,176-178	R76,77,98,100, 171-173,212,213	R102	R103	R104
COUNTRY	ABB.													
U.S.A.	K	0-10	NO	YES	NO	1.25A 125V	3.15A 125V	NO	NO	NO	YES	10K	6.2K	4.7K
CANADA	P1													

VR-5090 (X13-7840-11) (A/6)

DESTINATION		UNIT No.	Ⓕ	CN8	CN15, 16	F5-7	F8	L10	Q2	R58-63,105,142, 170,176-178	R76,77,98,100, 171-173,212,213	R101	R102	R103	R104
COUNTRY	ABB.														
U.S.A.	K1	0-11	NO	NO	YES	1.25A 125V	3.15A 125V	NO	NO	NO	YES	10K	1.8K	6.2K	4.7K
CANADA	P2														

KRF-X7775D (X13-7842-71) (A/6)

DESTINATION		UNIT No.	Ⓕ	CN8	CN15, 16	F5-7	F8	L10	Q2	R58-63,76,77,98, 100,105,212,213	R101	R102, 104	R103	R142,170-173, 176-178
COUNTRY	ABB.													
EUROPE	E1	2-71	YES	YES	NO	T1AL 250V	T3.15AL 250V	NO	NO	NO	3.3K	8.2K	2.2K	YES

KRF-X7775D-S (X13-78XX-XX) (A/6)

DESTINATION		UNIT No.	Ⓕ	CN8	CN15, 16	F5-7	F8	L10	Q2	R58-63,76,77, 98,100,212,213	R101	R102	R103	R104	R105	R142, 176-178	R170-173
COUNTRY	ABB.																
PX	Y1	42-91	NO	YES	NO	T1AL 250V	T3.15AL 250V	YES	YES	NO	10K	NO	10K	NO	YES	YES	NO
GENERAL MARKET	M1	40-21														NO	
AUSTRALIA	X1	40-71						NO	NO						NO		
EUROPE	E2	42-71	YES								3.3K	8.2K	2.2K	8.2K		YES	YES
SHANGHI	V	52-10	NO					YES	YES		10K	NO	10K	NO	YES	NO	NO

VR-5080 (X13-7840-10)

DESTINATION		UNIT No.	Ⓐ Ⓒ	Ⓓ Ⓔ	C640,645,646, 651,652	J501	J502, 602	J503, 504	J601	J603, 604	L601	R643,644, 659-662
COUNTRY	ABB.											
U.S.A.	K	0-10	NO	YES	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO
CANADA	P1											

VR-5090 (X13-7840-11)

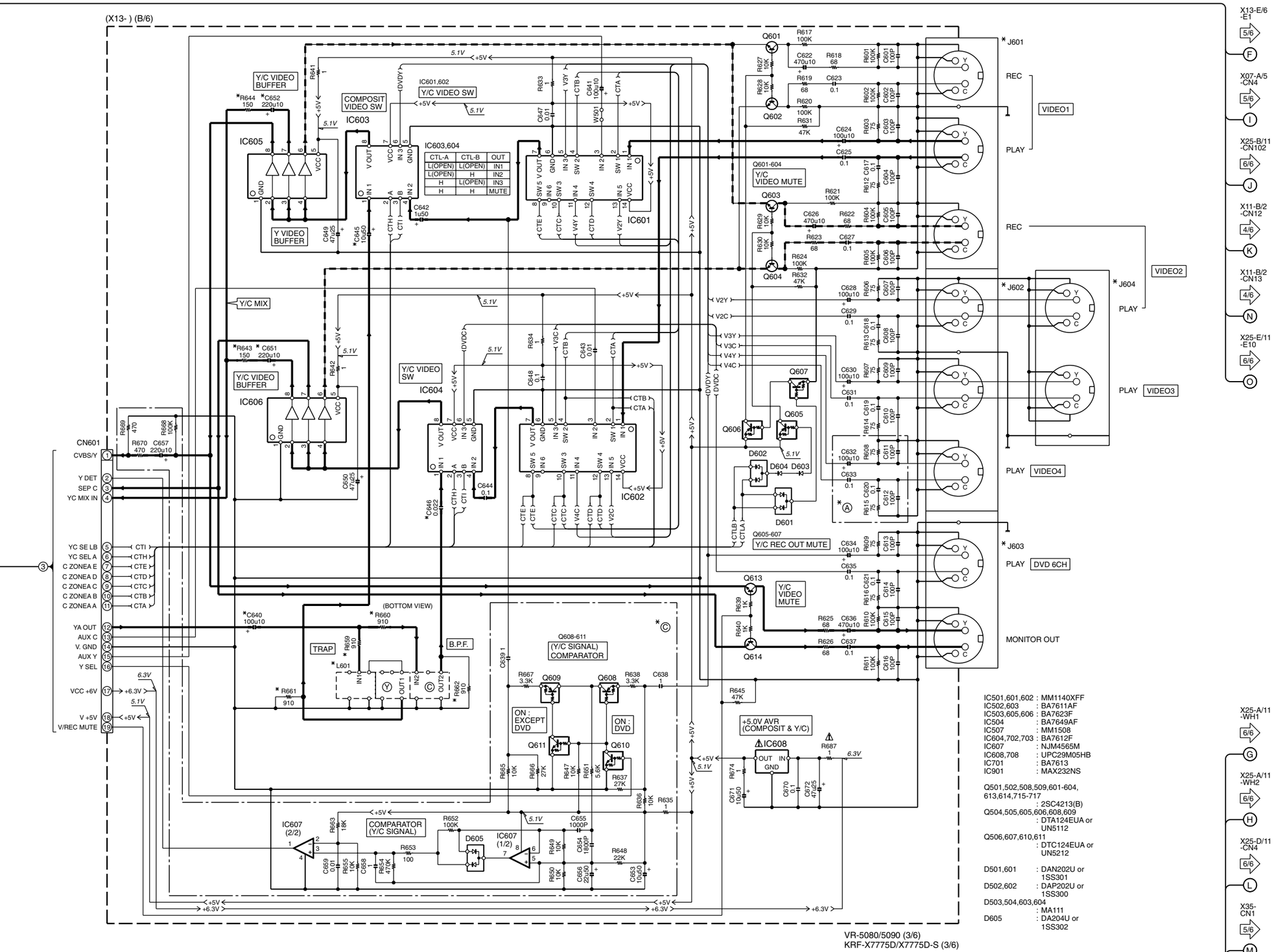
DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓔ	Ⓓ	C640,645,646, 651,652	J501	J502, 602	J503	J504, 604	J601	J603	L601	R643,644, 659-662
COUNTRY	ABB.												
U.S.A.	K1	0-11	YES	NO	YES	E63-1125-05	YES	E63-1123-05	NO	E56-0030-05	E56-0028-05	YES	YES
CANADA	P2												

KRF-X7775D (X13-7842-71)

DESTINATION		UNIT No.	Ⓐ Ⓔ	Ⓒ	Ⓓ	C640,645,646, 651,652	J501	J502, 602	J503, 504	J601	J603, 604	L601	R643,644, 659-662
COUNTRY	ABB.												
EUROPE	E1	2-71	NO	NO	YES	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO

KRF-X7775D-S (X13-78XX-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓔ	Ⓓ	C640,645,646, 651,652	J501	J502, 602	J503, 504	J601	J603, 604	L601	R643,644, 659-662
COUNTRY	ABB.											
PX	Y1	42-91	NO	YES	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO
GENERAL MARKET	M1	40-21										
AUSTRALIA	X1	40-71										
EUROPE	E2	42-71										
SHANGHI	V	52-10										



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DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

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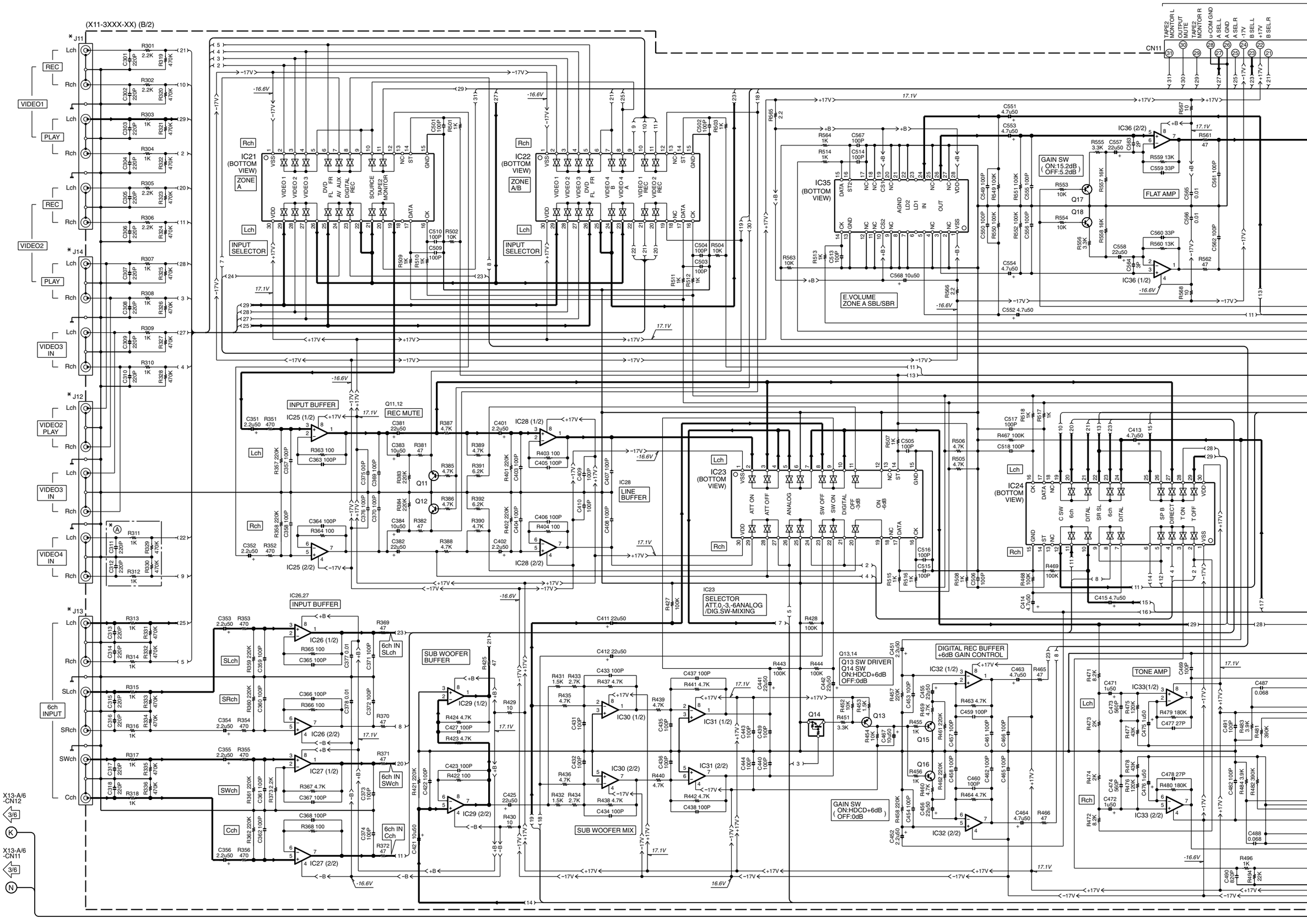
IC501,601,602 : MM1140XFF
IC502,603 : BA7611AF
IC503,605,606 : BA7623F
IC504 : BA7649AF
IC507 : MM1508
IC604,702,703 : BA7612F
IC607 : NJM4565M
IC608,708 : UPC29M05HB
IC701 : BA7613
IC901 : MAX232NS

Q501,502,508,509,601-604, 613,614,715-717 : 2SC4213(B)
Q504,505,605,606,608,609 : DTA124EUA or UN5112
Q506,607,610,611 : DTC124EUA or UN5212

D501,601 : DAN202U or 1SS301
D502,602 : DAP202U or 1SS300
D503,504,603,604 : MA111
D605 : DA204U or 1SS302

(X11-3XXX-XX) (B/2)



(X11-3XXX-XX) (A/2)

PHONO AMP

IC1 (1/2)

IC1 (2/2)

+8dB-MAX : 3.8V
OTHERS : -16.7V

CN1

CN12

CN13

IC24
SELECTOR
6ch-ANALOG/
DIG.TONE-ON/OFF
SP-B

IC34
TONE
CONTROL

ZONE A
IC2
(BOTTOM
VIEW)

ZONE B
IC3
(BOTTOM
VIEW)

IC2,3
INPUT
SELECTOR

TAPE2
REC BUFFER

IC4 (1/2)

IC4 (2/2)

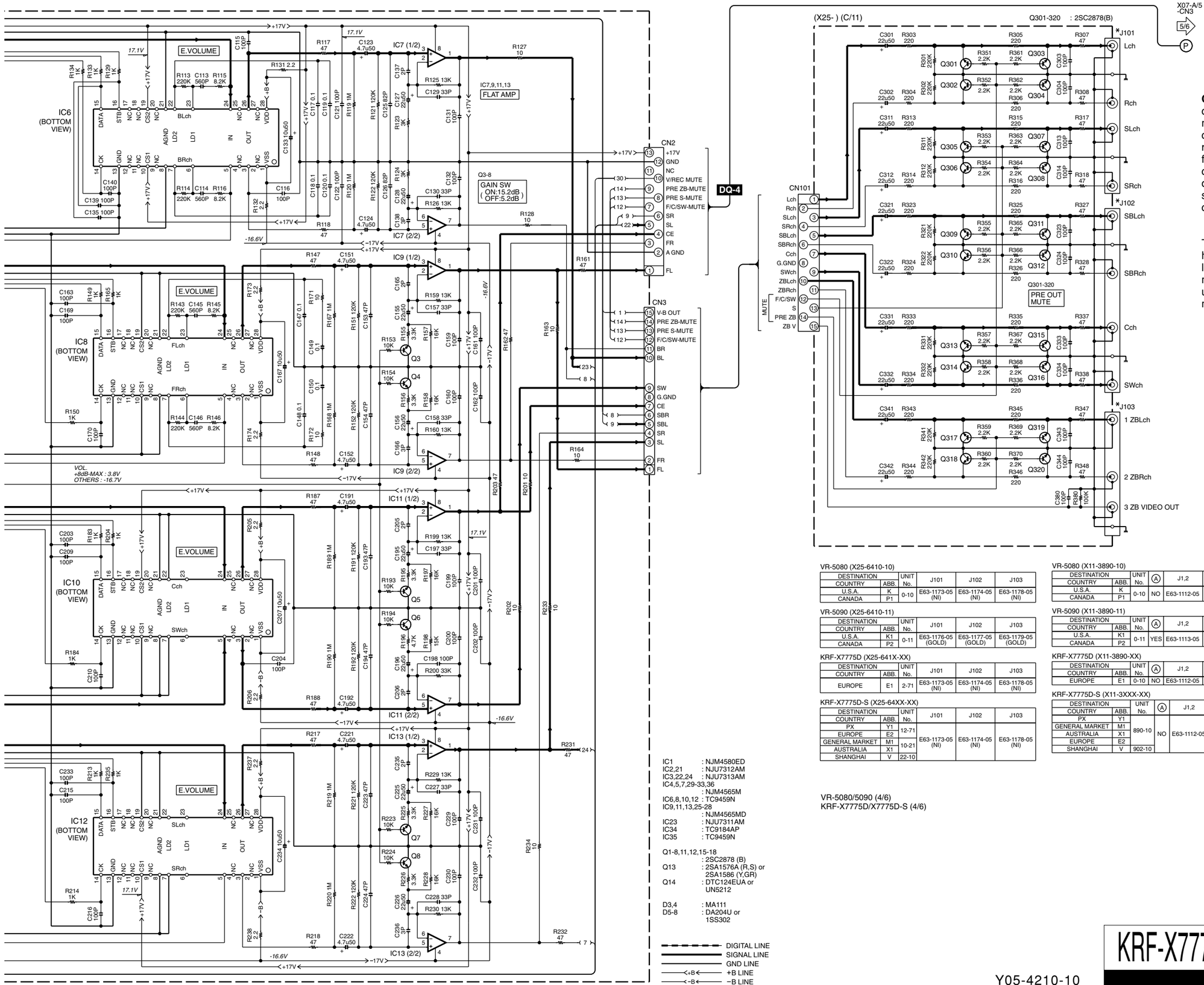
IC5 (1/2)

IC5 (2/2)

ZONE
B BUFF

BI-1

BM-1



IC1 : NJM4580ED
IC2,21 : NJU7312AM
IC3,22,24 : NJU7313AM
IC4,5,7,29-33,36 : NJM4565M
IC6,8,10,12 : TC9459N
IC9,11,13,25-28 : NJM4565MD
IC23 : NJU7311AM
IC34 : TC9184AP
IC35 : TC9459N

Q1-8,11,12,15-18 : 2SC2878 (B)
Q13 : 2SA1576A (R,S) or 2SA1586 (Y,GR)
Q14 : DTC124EUA or UN5212

D3,4 : MA111
D5-8 : DA204U or 1SS302

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

VR-5080 (X25-6410-10)

DESTINATION		UNIT No.	J101	J102	J103
COUNTRY	ABB.				
U.S.A.	K	0-10	E63-1173-05 (NI)	E63-1174-05 (NI)	E63-1178-05 (NI)
CANADA	P1				

VR-5090 (X25-6410-11)

DESTINATION		UNIT No.	J101	J102	J103
COUNTRY	ABB.				
U.S.A.	K1	0-11	E63-1176-05 (GOLD)	E63-1177-05 (GOLD)	E63-1179-05 (GOLD)
CANADA	P2				

KRF-X7775D (X25-641X-XX)

DESTINATION		UNIT No.	J101	J102	J103
COUNTRY	ABB.				
EUROPE	E1	2-71	E63-1173-05 (NI)	E63-1174-05 (NI)	E63-1178-05 (NI)

KRF-X7775D-S (X25-64XX-XX)

DESTINATION		UNIT No.	J101	J102	J103
COUNTRY	ABB.				
PX	Y1	12-71	E63-1173-05 (NI)	E63-1174-05 (NI)	E63-1178-05 (NI)
EUROPE	E2				
GENERAL MARKET	M1				
AUSTRALIA	X1	10-21			
SHANGHAI	V	22-10			

VR-5080 (X11-3890-10)

DESTINATION		UNIT No.	Ⓐ	J1,2	J11	J12	J13	J14
COUNTRY	ABB.							
U.S.A.	K	0-10	NO	E63-1112-05	E63-1164-05	NO	E63-1114-05	E63-1163-05
CANADA	P1							

VR-5090 (X11-3890-11)

DESTINATION		UNIT No.	Ⓐ	J1,2	J11,12	J13	J14
COUNTRY	ABB.						
U.S.A.	K1	0-11	YES	E63-1113-05	E63-1111-05	E63-1115-05	NO
CANADA	P2						

KRF-X7775D (X11-3890-XX)

DESTINATION		UNIT No.	Ⓐ	J1,2	J11	J12	J13	J14
COUNTRY	ABB.							
EUROPE	E1	0-10	NO	E63-1112-05	E63-1164-05	NO	E63-1114-05	E63-1163-05

KRF-X7775D-S (X11-3XXX-XX)

DESTINATION		UNIT No.	Ⓐ	J1,2	J11	J12	J13	J14
COUNTRY	ABB.							
PX	Y1	890-10	NO	E63-1112-05	E63-1164-05	NO	E63-1114-05	E63-1163-05
GENERAL MARKET	M1							
AUSTRALIA	X1							
EUROPE	E2							
SHANGHAI	V	902-10						

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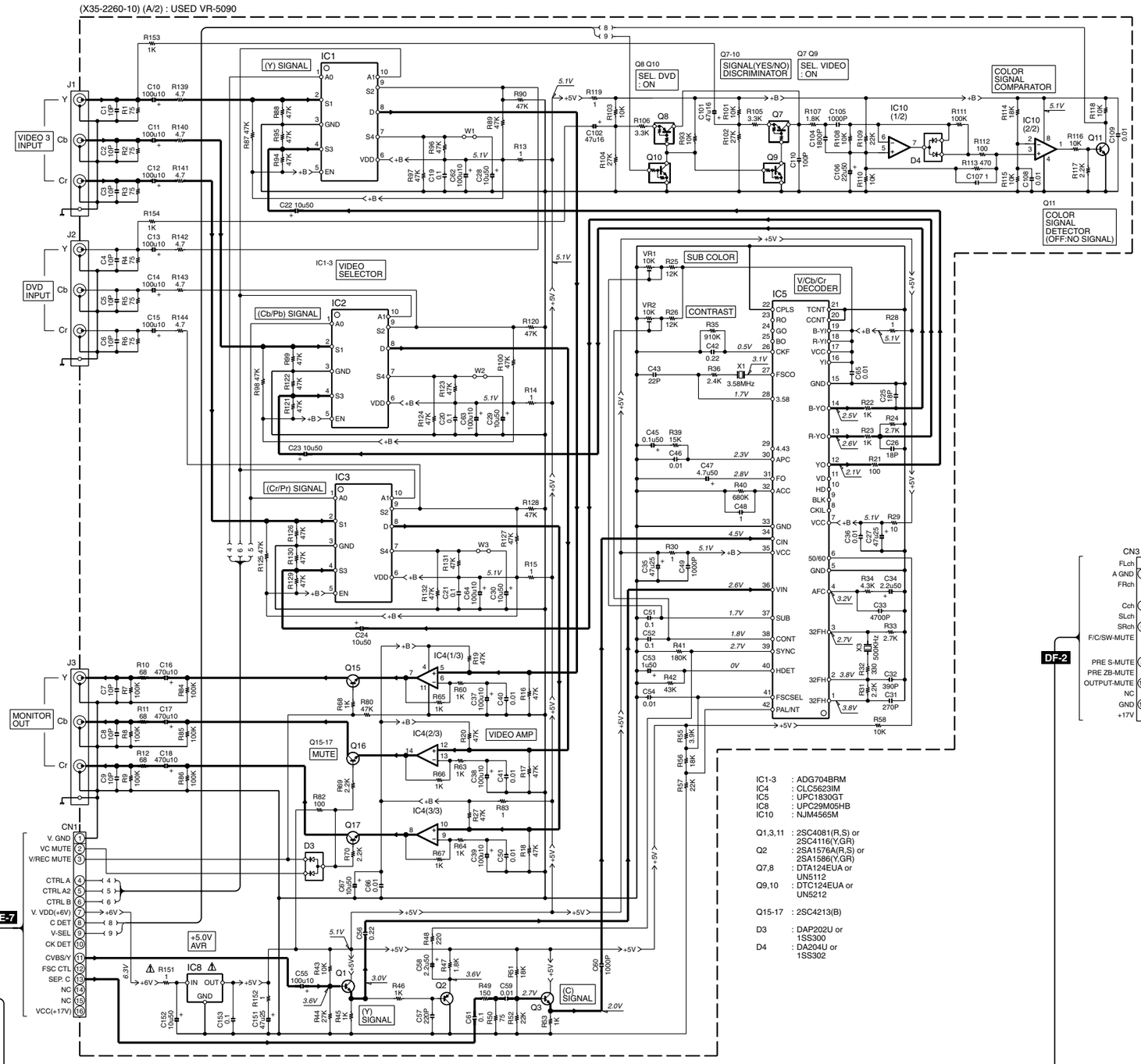
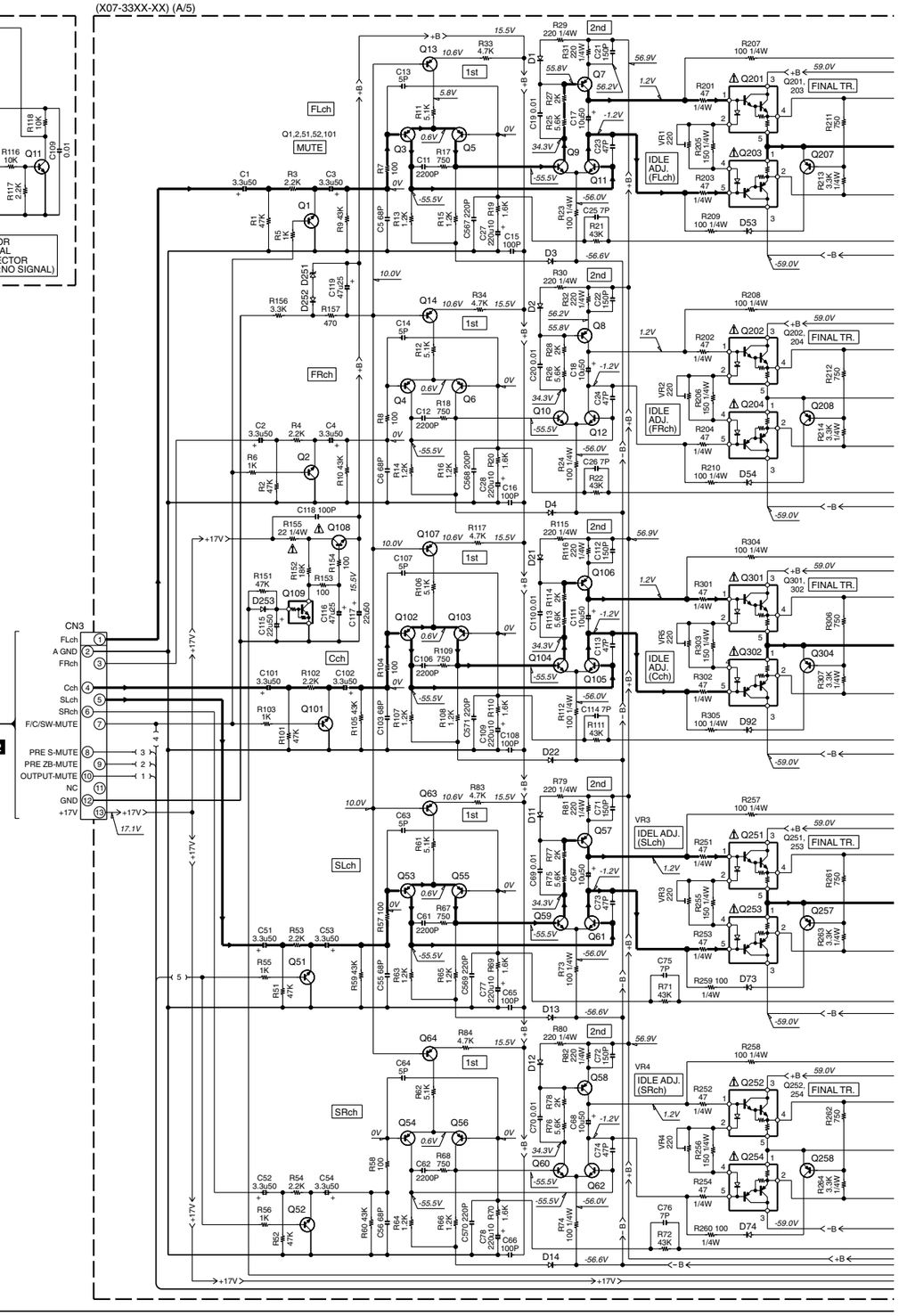
VR-5080/5090 (4/6)
KRF-X7775D/X7775D-S (4/6)

KRF-X7775D/X7775D-S/VR-5080/5090

KENWOOD





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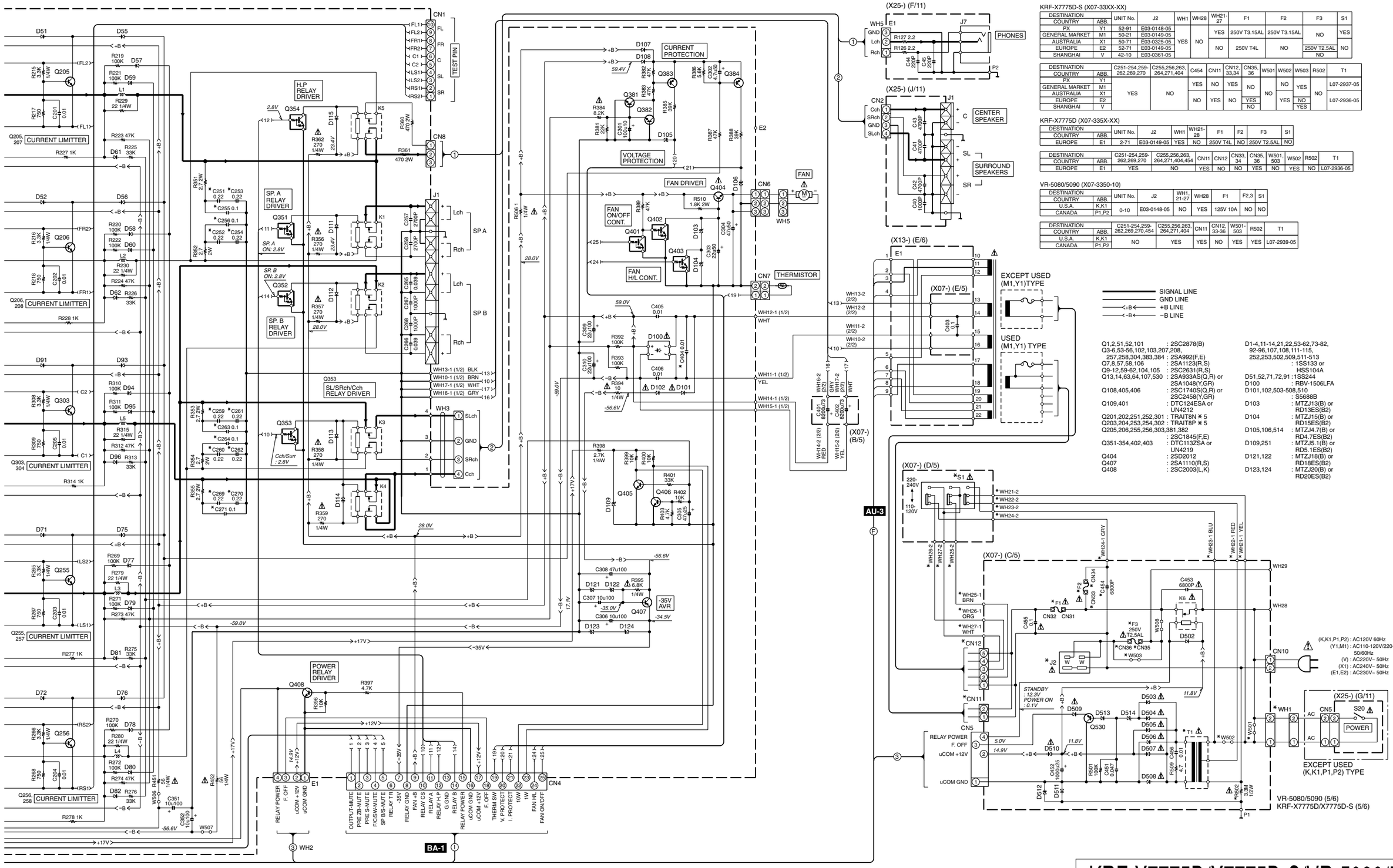


KRF-X7775D-S (X07-33XX-XX)

DESTINATION		UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
COUNTRY	ABB.									
PX	Y1	52-91	E03-0148-05	YES	NO	YES	250V T3.15AL	250V T3.15AL	NO	YES
GENERAL MARKET	M1	50-21	E03-0149-05							
AUSTRALIA	X1	50-71	E03-0325-05			NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05							
SHANGHAI	V	42-10	E03-0361-05						NO	

DESTINATION		C251-254,259-262,269,270	C255,256,263,264,271,404	C454	CN11	CN12,33,34	CN35,36	W501	W502	W503	R502	T1
COUNTRY	ABB.											
PX	Y1	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	L07-2937-05
GENERAL MARKET	M1											
AUSTRALIA	X1			NO	YES	NO	YES		YES	NO		L07-2936-05
EUROPE	E2											
SHANGHAI	V						NO		YES			

KRF-X7775D (X07-335X-XX)

DESTINATION		UNIT No.	J2	WH1	WH21-28	F1	F2	F3	S1
COUNTRY	ABB.								
EUROPE	E1	2-71	E03-0149-05	YES	NO	250V T4L	NO	250V T2.5AL	NO

DESTINATION		C251-254,259-262,269,270	C255,256,263,264,271,404,454	CN11	CN12	CN33,34	CN35,36	W501,503	W502	R502	T1
COUNTRY	ABB.										
EUROPE	E1	YES	NO	YES	NO	NO	YES	NO	YES	NO	L07-2936-05

VR-5080/5090 (X07-3350-10)

DESTINATION		UNIT No.	J2	WH1,21-27	WH28	F1	F2,3	S1
COUNTRY	ABB.							
U.S.A.	K,K1	0-10	E03-0148-05	NO	YES	125V 10A	NO	NO
CANADA	P1,P2							

DESTINATION		C251-254,259-262,269,270,454	C255,256,263,264,271,404	CN11	CN12,33-36	W501-503	R502	T1
COUNTRY	ABB.							
U.S.A.	K,K1	NO	YES	YES	NO	YES	YES	L07-2939-05
CANADA	P1,P2							

Q1,2,51,52,101 : 2SC2878(B)
Q3-6,53-56,102,103,207,208, 257,258,304,383,384 : 2SA992(F,E)
Q7,8,57,58,106 : 2SA1123(R,S)
Q9-12,59-62,104,105 : 2SC2631(R,S)
Q13,14,63,64,107,530 : 2SA933AS(Q,R) or 2SA1048(Y,GR)
Q108,405,406 : 2SC1740S(Q,R) or 2SC2458(Y,GR)
Q109,401 : DTC124ESA or UN4212
Q201,202,251,252,301 : TRAIT8N ✕ 5
Q203,204,253,254,302 : TRAIT8P ✕ 5
Q205,206,255,256,303,381,382 : 2SC1845(F,E)
Q351-354,402,403 : DTC113ZSA or UN4219
Q404 : 2SD2012
Q407 : 2SA1110(R,S)
Q408 : 2SC2003(L,K)

D1-4,11-14,21,22,53-62,73-82, 92-96,107,108,111-115, 252,253,502,509,511-513 : 1SS133 or HSS104A
D51,52,71,72,91 : 1SS244
D100 : RBV-1506LFA
D101,102,503-508,510 : S5688B
D103 : MTZJ13(B) or RD13ES(B2)
D104 : MTZJ15(B) or RD15ES(B2)
D105,106,514 : MTZJ4.7(B) or RD4.7ES(B2)
D109,251 : MTZJ5.1(B) or RD5.1ES(B2)
D121,122 : MTZJ18(B) or RD18ES(B2)
D123,124 : MTZJ20(B) or RD20ES(B2)

KRF-X7775D/X7775D-S/VR-5080/5090

KENWOOD

IC401 : TC4W53FU

Q401,414,416,417 : 2SC4081(R,S) or 2SC4116(Y,GR)

Q402,413,418 : DTC124EUA or UN5212

Q412,415 : 2SA1576A(R,S) or 2SA1586(Y,GR)

Q419 : DTA124EUA or UN5112

D403,408,411 : DA204U or 1SS302

D410,412-414 : 1SS133 or HSS104A

(X25-) (B/11)

(X25-) (D/11)

IC11 : TC74HC151AF

(X25-64XX-XX) (A/11)

(X25-) (E/11) D27,28 : DA204U or 1SS302

VR-5080 (X25-6410-10)

DESTINATION		UNIT No.	Ⓑ Ⓒ	Ⓓ Ⓕ	D11	D15-18, 24,25	D414	Q419	R6	R82-85, 91,92	R241-245	W95
COUNTRY	ABB.											
U.S.A.	K	0-10	NO	YES	B30-2548-05 (GREEN)	B30-2573-05 (RED)	NO	NO	150	270	YES	YES
CANADA	P1											

VR-5090 (X25-6410-11)

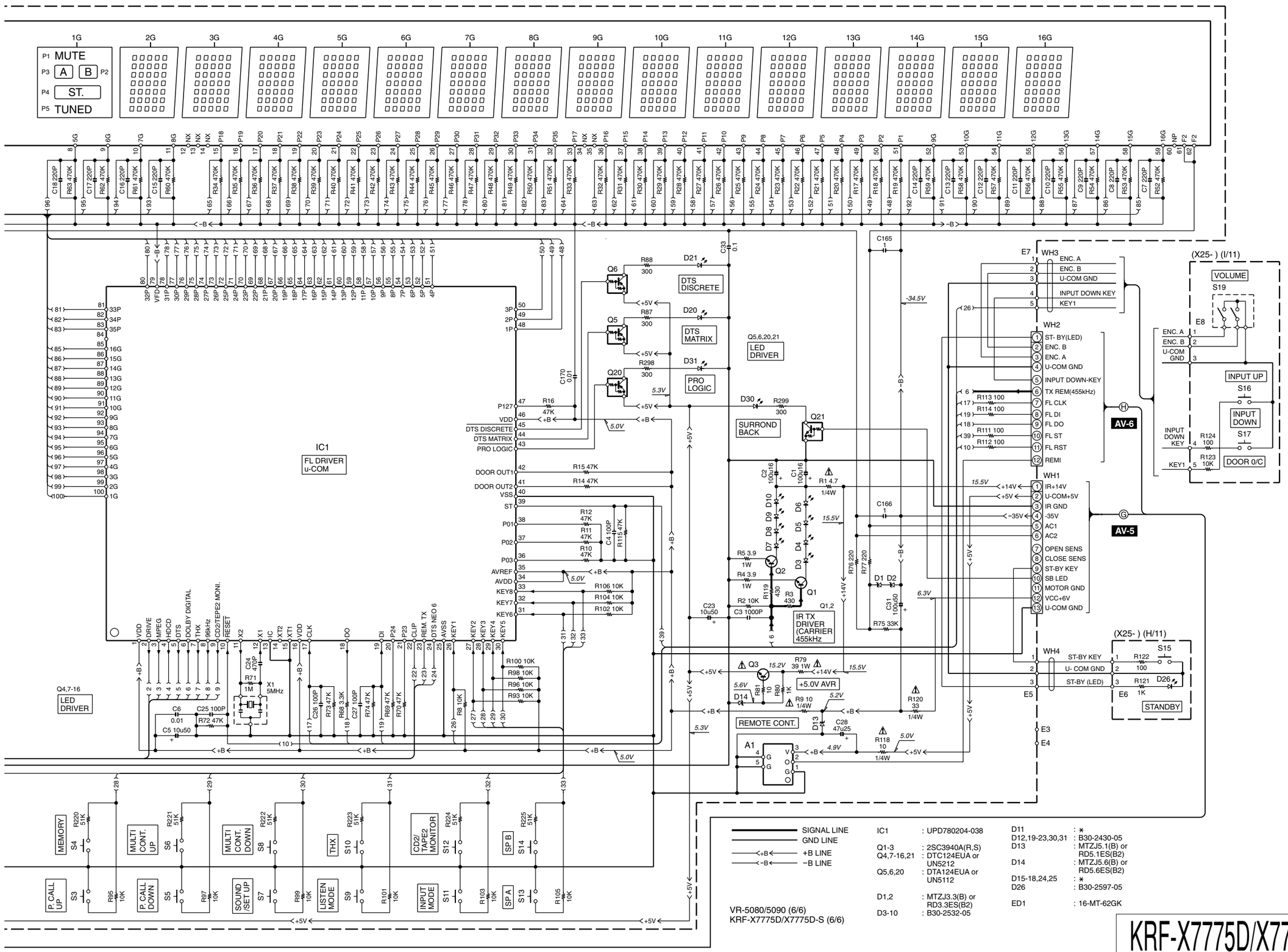
DESTINATION		UNIT No.	Ⓑ Ⓒ Ⓓ Ⓕ	D11	D15-18, 24,25	D414	Q419	R6	R82-85, 91,92	R241-245	W95
COUNTRY	ABB.										
U.S.A.	K1	0-11	YES	B30-2548-05 (GREEN)	B30-2573-05 (RED)	NO	NO	150	270	NO	NO
CANADA	P2										

KRF-X7775D (X25-641X-XX)

DESTINATION		UNIT No.	Ⓑ Ⓒ Ⓕ	Ⓓ	D11	D15-18, 24,25	D414	Q419	R6	R82-85, 91,92	R241-244	S18	W95
COUNTRY	ABB.												
EUROPE	E1	2-71	NO	YES	B30-2548-05	B30-2573-05	YES	YES	150	270	YES	NO	YES

KRF-X7775D-S (X25-64XX-XX)

DESTINATION		UNIT No.	Ⓑ Ⓒ Ⓕ	Ⓓ	D11	D15-18, 24,25	D414	Q419	R6	R82-85, 91,92	R241-245	W95
COUNTRY	ABB.											
PX	Y1	12-71	NO	YES	B30-2548-05 (GREEN)	B30-2573-05 (RED)	YES	YES	150	270	YES	YES
EUROPE	E2											
GENERAL MARKET	M1	10-21		NO			NO	NO				
AUSTRALIA	X1				B30-2571-05 (BLUE)	B30-2571-05 (BLUE)			220	220		
SHANGHAI	V1	22-10										


P1 MUTE
P3 A B P2
P4 ST.
P5 TUNED
IC1
FL DRIVER u-COM
Q4,7-16 LED DRIVER
Q5,6,20,21 LED DRIVER
DTS DISCRETE
DTS MATRIX
PRO LOGIC
SURROUND BACK
IR TX DRIVER (CARRIER 455kHz
REMOTE CONT.
+5.0V AVR
E7 WH3 ENC. A ENC. B U-COM GND INPUT DOWN KEY KEY1
WH2 ST- BY(LED) ENC. B ENC. A U-COM GND INPUT DOWN-KEY TX REM(455kHz) FL CLK FL DI FL DO FL ST FL RST REMI
WH1 IR+14V U-COM+5V IR GND -35V AC1 AC2 OPEN SENS CLOSE SENS ST-BY KEY SB LED MOTOR GND VCC+6V U-COM GND
AV-6
AV-5
(X25-) (I/11) VOLUME S19 E8 ENC. A ENC. B U-COM GND INPUT UP S16 INPUT DOWN S17 INPUT DOWN KEY KEY1 DOOR 0/C
(X25-) (H/11) WH4 ST-BY KEY U- COM GND ST-BY (LED) S15 D26 E6 STANDBY
E5
MEMORY S4 MULTI CONT. UP S6 MULTI CONT. DOWN S8 THX S10 CD2/ TAPE2 MONITOR S12 SP B S14
P. CALL UP S3 P. CALL DOWN S5 SOUND /SET UP S7 LISTEN MODE S9 INPUT MODE S11 SP A S13
SIGNAL LINE
GND LINE
+B LINE
−B LINE
IC1 : UPD780204-038
Q1-3 : 2SC3940A(R,S)
Q4,7-16,21 : DTC124EUA or UN5212
Q5,6,20 : DTA124EUA or UN5112
D1,2 : MTZJ3.3(B) or RD3.3ES(B2)
D3-10 : B30-2532-05
D11 : ∗
D12,19-23,30,31 : B30-2430-05
D13 : MTZJ5.1(B) or RD5.1ES(B2)
D14 : MTZJ5.6(B) or RD5.6ES(B2)
D15-18,24,25 : ∗
D26 : B30-2597-05
ED1 : 16-MT-62GK

VR-5080/5090 (6/6)
KRF-X7775D/X7775D-S (6/6)

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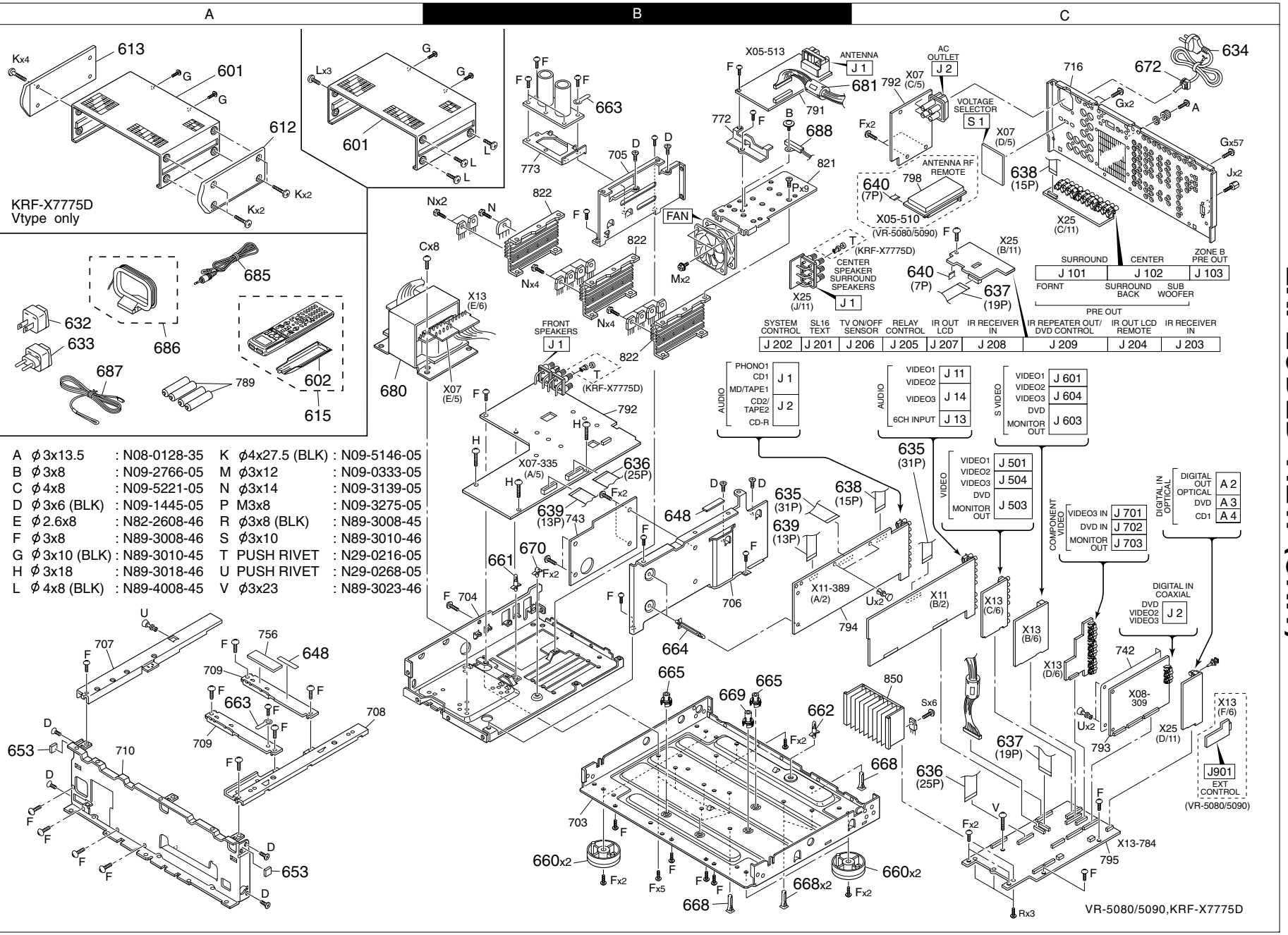
EXPLODED VIEW (UNIT)

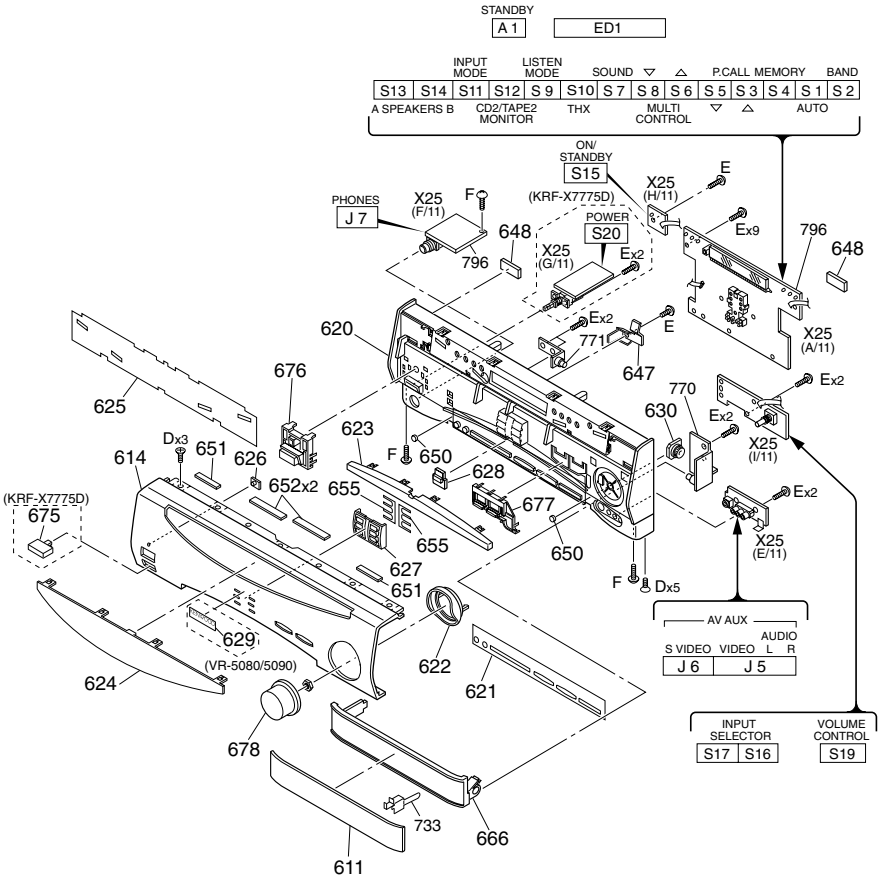

A
B
C
1
2
KRF-X7775D
Vtype only
VR-5080/5090,KRF-X7775D
A φ3x13.5 : N08-0128-35
B φ3x8 : N09-2766-05
C φ4x8 : N09-5221-05
D φ3x6 (BLK) : N09-1445-05
E φ2.6x8 : N82-2608-46
F φ3x8 : N89-3008-46
G φ3x10 (BLK) : N89-3010-45
H φ3x18 : N89-3018-46
L φ4x8 (BLK) : N09-4008-45
K φ4x27.5 (BLK) : N09-5146-05
M φ3x12 : N09-0333-05
N φ3x14 : N09-3139-05
P M3x8 : N09-3275-05
R φ3x8 (BLK) : N89-3008-45
S φ3x10 : N89-3010-46
T PUSH RIVET : N29-0216-05
U PUSH RIVET : N29-0268-05
V φ3x23 : N89-3023-46
SYSTEM CONTROL J 202
SL16 TEXT J 201
TV ON/OFF SENSOR J 206
RELAY CONTROL J 205
IR OUT LCD J 207
IR RECEIVER IN J 208
IR REPEATER OUT/ DVD CONTROL J 209
IR OUT LCD REMOTE J 204
IR RECEIVER IN J 203
SURROUND J 101
CENTER J 102
ZONE B PRE OUT J 103
PRE OUT
FRONT SPEAKERS J 1
CENTER SPEAKER SURROUND SPEAKERS J 1
ANTENNA J 1
AC OUTLET J 2
VOLTAGE SELECTOR S 1
ANTENNA RF REMOTE
FAN
AUDIO PHONO1 CD1 MD/TAPE1 CD2/TAPE2 CD-R J 1 J 2
AUDIO VIDEO1 VIDEO2 VIDEO3 6CH INPUT J 11 J 14 J 13
S VIDEO VIDEO1 VIDEO2 VIDEO3 DVD MONITOR OUT J 601 J 604 J 603
VIDEO VIDEO1 VIDEO2 VIDEO3 DVD MONITOR OUT J 501 J 504 J 503
COMPONENT VIDEO VIDEO3 IN DVD IN MONITOR OUT J 701 J 702 J 703
DIGITAL IN OPTICAL DIGITAL OUT OPTICAL DVD CD1 A 2 A 3 A 4
DIGITAL IN COAXIAL DVD VIDEO2 VIDEO3 J 2
J901 EXT CONTROL (VR-5080/5090)
X13-784

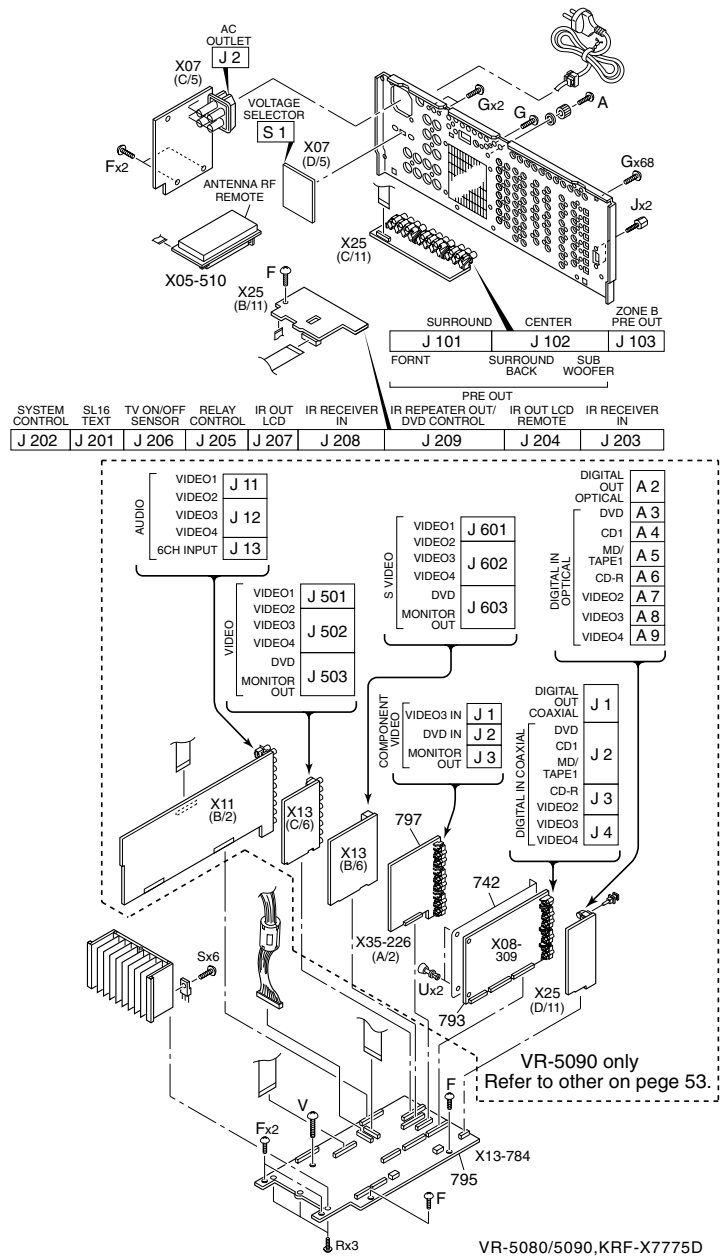
Parts with exploded numbers larger than 700 are not supplied.

KRF-X7775D/X7775D-S/VR-5080/5090

EXPLODED VIEW (UNIT)

D φ3x6 (BLK) : N09-1445-05
E φ2.6x8 : N82-2608-46
F φ3x8 : N89-3008-46





Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
KRF-X7775D/KRF-X7775D-S/VR-5080/VR-5090						
601	1A	✻	A01-3802-01	METALLIC CABINET	M1X1E2	
601	1A	✻	A01-3803-01	METALLIC CABINET	V	
601	1A	✻	A01-3804-01	METALLIC CABINET	KP1K1	
601	1A	✻	A01-3804-01	METALLIC CABINET	P2E1Y1	
602	1A		A09-1166-08	BATTERY COVER		
611	2D	✻	A29-1137-03	PANEL	M1X1	
611	2D	✻	A29-1138-03	PANEL	KP1K1	
611	2D	✻	A29-1138-03	PANEL	P2Y1	
611	2D	✻	A29-1139-03	PANEL	E2	
611	2D	✻	A29-1140-03	PANEL	E1	
612	1A		A50-1344-02	SIDE PLATE R	V	
613	1A		A50-1345-02	SIDE PLATE L	V	
614	1D	✻	A60-1959-02	PANEL	KP1	
614	1D	✻	A60-1960-02	PANEL	K1P2	
614	1D	✻	A60-1961-02	PANEL	M1X1E2	
614	1D	✻	A60-1963-02	PANEL	E1Y1	
614	1D	✻	A60-2014-02	PANEL	V	
615	1A	✻	A70-1453-05	REMOTE CONTROL ASSY(RC-R0913)	KP1K1	
615	1A	✻	A70-1453-05	REMOTE CONTROL ASSY(RC-R0913)	P2	
615	1A	✻	A70-1454-05	REMOTE CONTROL ASSY(RC-R0914)	V	
615	1A	✻	A70-1454-05	REMOTE CONTROL ASSY(RC-R0914)	Y1M1X1	
615	1A	✻	A70-1455-05	REMOTE CONTROL ASSY(RC-R0915)	E1E2	
620	1D	✻	B01-0543-11	PANEL ESCUTCHEON	KP1K1	
620	1D	✻	B01-0543-11	PANEL ESCUTCHEON	P2E1Y1	
620	1D	✻	B01-0544-11	PANEL ESCUTCHEON	M1X1E2	
620	1D	✻	B01-0544-11	PANEL ESCUTCHEON	V	
621	2D	✻	B03-3874-03	DRESSING PLATE	KP1K1	
621	2D	✻	B03-3874-03	DRESSING PLATE	P2	
621	2D	✻	B03-3875-03	DRESSING PLATE	M1X1E2	
621	2D	✻	B03-3875-03	DRESSING PLATE	V	
621	2D	✻	B03-3877-03	DRESSING PLATE	E1Y1	
622	2D		B07-2495-04	ESCUTCHEON	M1X1E2	
622	2D		B07-2495-04	ESCUTCHEON	V	
622	2D		B07-2496-04	ESCUTCHEON	KP1K1	
622	2D		B07-2496-04	ESCUTCHEON	P2E1Y1	
623	1D		B10-3570-03	FRONT GLASS		
624	2D	✻	B10-3639-02	FRONT GLASS		
625	1D	✻	B11-1528-03	COLOR FILTER		
626	1D		B12-0390-04	INDICATOR		
627	2D		B12-0391-14	INDICATOR		
628	1D		B12-0392-14	INDICATOR		
629	2D	✻	B43-0322-04	KENWOOD BADGE	KP1K1	
629	2D	✻	B43-0322-04	KENWOOD BADGE	P2	
-			B46-0096-53	WARRANTY CARD	X1	
-			B46-0310-03	WARRANTY CARD	E1E2	
-			B46-0330-03	WARRANTY CARD	Y1	
-		✻	B46-0331-03	WARRANTY CARD	KK1	
-			B46-0344-03	WARRANTY CARD	V	
-		✻	B46-0358-00	QUESTIONAIRE CARD	KK1	
-		✻	B46-0359-03	WARRANTY CARD	P1P2	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y1	
-			B58-0964-13	CAUTION CARD (UL)	KK1Y1	

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X1	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	E1M1E2	
-			B58-0967-03	CAUTION CARD (PtypePL)	P1P2	
-			B58-1546-03	CAUTION CARD	V	
-			B59-1104-00	SERVICE DIRECTORY	Y1	
-		✻	B60-4861-00	INSTRUCTION MANUAL (EN1)	KP1K1	
-		✻	B60-4861-00	INSTRUCTION MANUAL (EN1)	P2	
-		✻	B60-4862-00	INSTRUCTION MANUAL (FR1)	P1P2	
-		✻	B60-4863-00	INSTRUCTION MANUAL (EN1)	Y1M1X1	
-		✻	B60-4864-00	INSTRUCTION MANUAL (FR1)	E2	
-		✻	B60-4865-00	INSTRUCTION MANUAL (GE1)	E1E2	
-		✻	B60-4866-00	INSTRUCTION MANUAL (NE1)	E1E2	
-		✻	B60-4867-00	INSTRUCTION MANUAL (IT1)	E2	
-		✻	B60-4868-00	INSTRUCTION MANUAL (ES1)	E2	
-		✻	B60-4869-00	INSTRUCTION MANUAL (TC1)	M1	
-		✻	B60-4870-00	INSTRUCTION MANUAL (AR1)	M1	
-		✻	B60-4872-00	INSTRUCTION MANUAL (EN2)	KP1K1	
-		✻	B60-4872-00	INSTRUCTION MANUAL (EN2)	P2	
-		✻	B60-4873-00	INSTRUCTION MANUAL (FR2)	P1P2	
-		✻	B60-4874-00	INSTRUCTION MANUAL (EN2)	Y1M1X1	
-		✻	B60-4875-00	INSTRUCTION MANUAL (FR2)	E2	
-		✻	B60-4876-00	INSTRUCTION MANUAL (GE2)	E1E2	
-		✻	B60-4877-00	INSTRUCTION MANUAL (NE2)	E1E2	
-		✻	B60-4878-00	INSTRUCTION MANUAL (IT2)	E2	
-		✻	B60-4879-00	INSTRUCTION MANUAL (ES2)	E2	
-		✻	B60-4880-00	INSTRUCTION MANUAL (TC2)	M1	
-		✻	B60-4881-00	INSTRUCTION MANUAL (AR2)	M1	
-		✻	B60-5035-00	INSTRUCTION MANUAL (SC1)	V	
-		✻	B60-5036-00	INSTRUCTION MANUAL (SC2)	V	
630	1E		D39-0347-05	DAMPER		
⚠ 632	1A	✻	E03-0382-05	AC PLUG ADAPTER (WA-6)	M1	
⚠ 633	1A	✻	E03-0383-05	AC PLUG ADAPTER (WA-9C)	M1	
⚠ 634	1C		E30-2789-05	AC POWER CORD	Y1	
⚠ 634	1C		E30-2790-05	AC POWER CORD	X1	
⚠ 634	1C		E30-2824-15	AC POWER CORD	V	
⚠ 634	1C		E30-2943-05	AC POWER CORD	E1E2	
⚠ 634	1C		E30-2944-05	AC POWER CORD	KP1K1	
⚠ 634	1C		E30-2944-05	AC POWER CORD	P2	
⚠ 634	1C	✻	E30-7225-05	AC POWER CORD	M1	
635	2B,1C	✻	E35-2757-05	FLAT CABLE (31P)		
636	2B,2C	✻	E35-2758-05	FLAT CABLE (25P)		
637	1C,2C	✻	E35-2759-05	FLAT CABLE (19P)		
638	1C,2C	✻	E35-2760-05	FLAT CABLE (15P		
639	2B	✻	E35-2761-05	FLAT CABLE (13P)		
640	1C	✻	E35-2762-05	FLAT CABLE (7P)	KP1K1	
640	1C	✻	E35-2762-05	FLAT CABLE (7P)	P2	
647	1E		G02-1701-04	FLAT SPRING		
648	1B,1E		G10-0541-04	NON-WOVEN FABRIC		
650	1D,2E		G11-2719-04	CUSHION		
651	1D		G11-2730-04	SOFT TAPE		
652	1D		G11-2731-04	SOFT TAPE		
653	2A		G11-2743-14	CUSHION		
655	2D		G11-2762-04	CUSHION	V	

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-			H10-7636-12	POLYSTYRENE FOAMED FIXTURE,L	KP1K1	
-			H10-7636-12	POLYSTYRENE FOAMED FIXTURE,L	P2E1	
-			H10-7636-12	POLYSTYRENE FOAMED FIXTURE,L	X1Y1	
-		✻	H10-7637-22	POLYSTYRENE FOAMED FIXTURE,R	KP1K1	
-		✻	H10-7637-22	POLYSTYRENE FOAMED FIXTURE,R	P2E1	
-		✻	H10-7637-22	POLYSTYRENE FOAMED FIXTURE,R	X1Y1	
-			H10-7638-22	POLYSTYRENE FOAMED FIXTURE,L	V	
-			H10-7639-32	POLYSTYRENE FOAMED FIXTURE,R	V	
-		✻	H10-7755-12	POLYSTYRENE FOAMED FIXTURE,L	M1E2	
-		✻	H10-7756-22	POLYSTYRENE FOAMED FIXTURE,R	M1E2	
-		✻	H12-3527-04	PACKING FIXTURE	M1E2	
-		✻	H13-0050-04	CARTON BOARD	M1E2	
-			H13-0330-14	CARTON BOARD		
-		✻	H13-0341-04	CARTON BOARD	KP1K1	
-		✻	H13-0341-04	CARTON BOARD	P2	
-		✻	H21-0388-04	PROTECTION SHEET	V	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KP1K1	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	P2E1Y1	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	X1V	
-			H25-0632-24	PROTECTION BAG (250X400)	M1E2	
-			H25-0692-04	PROTECTION BAG	E1E2	
-			H25-0692-04	PROTECTION BAG	M1X1Y1	
-			H25-1671-04	PROTECTION BAG	V	
-		✻	H25-1710-04	PROTECTION BAG (500X950)	KP1K1	
-		✻	H25-1710-04	PROTECTION BAG (500X950)	P2	
-		✻	H50-3941-04	ITEM CARTON CASE	KP1	
-		✻	H50-3942-04	ITEM CARTON CASE	K1P2	
-		✻	H50-3943-04	ITEM CARTON CASE	E1	
-		✻	H50-4074-04	ITEM CARTON CASE	V	
-		✻	H50-4150-04	ITEM CARTON CASE	Y1	
-		✻	H50-4151-04	ITEM CARTON CASE	X1	
-		✻	H50-4219-04	ITEM CARTON CASE	M1	
-		✻	H50-4220-04	ITEM CARTON CASE	E2	
660	2B,2C		J02-1467-03	FOOT (D=60,H=21.5)		
661	2B		J19-5910-05	UNIT HOLDER		
662	2B		J19-5911-05	UNIT HOLDER		
663	2A,1B		J19-0306-05	LEAD HOLDER		
664	2B		J19-5919-05	UNIT HOLDER		
665	2B		J19-6002-04	UNIT HOLDER		
666	2E		J19-6053-12	HOLDER	M1X1E2	
666	2E		J19-6068-12	HOLDER	KP1K1	
666	2E		J19-6068-12	HOLDER	P2E1Y1	
668	2B,2C	✻	J19-6163-05	HOLDER		
669	2B	✻	J19-6203-04	UNIT HOLDER		
670	2B	✻	J19-6080-05	UNIT HOLDER		
672	1C		J42-0083-05	POWER CORD BUSHING	Y1X1	
672	1C		J42-0157-05	POWER CORD BUSHING	E2	
672	1C		J42-0157-05	POWER CORD BUSHING	KP1K1	
672	1C		J42-0157-05	POWER CORD BUSHING	P2E1M1	
-			J61-0307-05	WIRE BAND		
675	2D		K27-2388-04	KNOB (BUTTON)	M1X1E2	
675	2D		K27-2388-04	KNOB (BUTTON)	V	
675	2D		K27-2398-04	KNOB (BUTTON)	E1Y1	
676	1D		K29-7727-04	KNOB	M1X1E2	

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676	1D		K29-7727-04	KNOB	V	
676	1D		K29-7729-04	KNOB	KP1K1	
676	1D		K29-7729-04	KNOB	P2E1Y1	
677	2E		K29-7739-13	KNOB	M1X1E2	
677	2E		K29-7739-13	KNOB	V	
677	2E		K29-7740-13	KNOB	KP1K1	
677	2E		K29-7740-13	KNOB	P2E1Y1	
678	2D		K29-7742-04	KNOB	M1X1E2	
678	2D		K29-7742-04	KNOB	V	
678	2D		K29-7743-04	KNOB	KP1K1	
678	2D		K29-7743-04	KNOB	P2E1Y1	
⚠ 680	1A	✻	L07-2941-05	POWER TRANSFORMER	KP1K1	
⚠ 680	1A	✻	L07-2941-05	POWER TRANSFORMER	P2	
⚠ 680	1A	✻	L07-2942-05	POWER TRANSFORMER	E1E2	
⚠ 680	1A	✻	L07-2943-05	POWER TRANSFORMER	Y1M1	
⚠ 680	1A	✻	L07-2944-05	POWER TRANSFORMER	X1	
⚠ 680	1A	✻	L07-2950-05	POWER TRANSFORMER	V	
681	1C	✻	L92-0533-05	FERRITE CORE		
682	2C	✻	L92-0531-05	FERRITE CORE		
685	1A	✻	T90-0850-15	ANTENNA ASSY	KP1K1	
685	1A	✻	T90-0850-15	ANTENNA ASSY	P2	
686	1A		T90-0852-05	LOOP ANTENNA		
687	1A		T90-0855-05	LEAD WIRE ANTENNA		
688	1B	✻	DP40203SG270	THERMISTOR		

RF-RC DEMODULATOR UNIT (X05-5100-11) K,P type only

C1 ,2			CC73GCH1H100D	CHIP C	10PF	D		
C5			CK73GB1E223K	CHIP C	0.022UF	K		
C6			CC73GCH1H221J	CHIP C	220PF	J		
C7			CC73GCH1H100D	CHIP C	10PF	D		
C8			CK73GB1H102K	CHIP C	1000PF	K		
C9			C93-0037-05	CERAMIC	10UF	10WV		
C10			CK73GB1H102K	CHIP C	1000PF	K		
C11			CC73GCH1H040C	CHIP C	4.0PF	C		
C12			CC73GCH1H100D	CHIP C	10PF	D		
C13			CC73GCH1H040C	CHIP C	4.0PF	C		
C14			CC73GCH1H010C	CHIP C	1.0PF	C		
C15			CC73GCH1H050C	CHIP C	5.0PF	C		
C16			CK73GB1E223K	CHIP C	0.022UF	K		
C17			CC73GCH1H221J	CHIP C	220PF	J		
C18			CC73GCH1H100D	CHIP C	10PF	D		
C19			CC73GCH1H471J	CHIP C	470PF	J		
C20			C93-0037-05	CERAMIC	10UF	10WV		
C21			CK73GB1H102K	CHIP C	1000PF	K		
C22 ,23			CC73GCH1H150J	CHIP C	15PF	J		
C24			CK73GB1H102K	CHIP C	1000PF	K		
C25			CK73GB1E103K	CHIP C	0.010UF	K		
C26			CK73GF1A474Z	CHIP C	0.47UF	Z		
C27			C93-0036-05	CHIP-C	4.7UF	Z		
C28			CK73GB1E103K	CHIP C	0.010UF	K		
C29			CC73GCH1H101J	CHIP C	100PF	J		
C30			CK73GB1E103K	CHIP C	0.010UF	K		
C31			C93-0037-05	CERAMIC	10UF	10WV		
C32			CK73GB1C473K	CHIP C	0.047UF	K		

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C33			C93-0036-05	CHIP-C	4.7UF	Z		
C34			CC73GCH1H471J	CHIP C	470PF	J		
C35			CK73GB1E103K	CHIP C	0.010UF	K		
C36			CK73GF1C224Z	CHIP C	0.22UF	Z		
C37			CC73GCH1H100D	CHIP C	10PF	D		
C38			CK73GB1H472K	CHIP C	4700PF	K		
C39			CC73GCH1H331J	CHIP C	330PF	J		
C40			CK73GB1E103K	CHIP C	0.010UF	K		
C41			C93-0036-05	CHIP-C	4.7UF	Z		
C42			C93-0037-05	CERAMIC	10UF	10WV		
C43			C93-0039-05	CERAMIC	22UF	10WV		
CN1			E40-8530-05	FLAT CABLE CONNECTOR				
J1			E11-0904-05	MINIATURE PHONE JACK(STEREO MI)				
CF1			L72-0626-05	CERAMIC FILTER				
L1			L79-1269-05	LC FILTER				
L2			L40-1585-67	SMALL FIXED INDUCTOR(150N,J,20)				
L3			L32-1021-05	FM OSCILLATING COIL				
L4			L40-1085-67	SMALL FIXED INDUCTOR(100N,J,20)				
X1			L77-2274-05	CRYSTAL RESONATOR				
R1			RK73GB1J431J	CHIP R	430	J 1/16W		
R2			RK73GB1J120J	CHIP R	12	J 1/16W		
R3			RK73GB1J431J	CHIP R	430	J 1/16W		
R10			RK73GB1J331J	CHIP R	330	J 1/16W		
R11			RK73GB1J391J	CHIP R	390	J 1/16W		
R12			RK73GB1J100J	CHIP R	10	J 1/16W		
R13			RK73GB1J470J	CHIP R	47	J 1/16W		
R14			RK73GB1J473J	CHIP R	47K	J 1/16W		
R15			RK73GB1J2R2J	CHIP R	2.2	J 1/16W		
R16			RK73GB1J100J	CHIP R	10	J 1/16W		
R17			RK73GB1J101J	CHIP R	100	J 1/16W		
R18			RK73GB1J184J	CHIP R	180K	J 1/16W		
R19			RK73GB1J471J	CHIP R	470	J 1/16W		
R20 ,21			RK73GB1J100J	CHIP R	10	J 1/16W		
R22 -24			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R25			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R26			RK73GB1J101J	CHIP R	100	J 1/16W		
R27			RK73GB1J152J	CHIP R	1.5K	J 1/16W		
R28			RK73GB1J681J	CHIP R	680	J 1/16W		
R29 -31			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R32			RK73GB1J152J	CHIP R	1.5K	J 1/16W		
R33			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R34 ,35			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R36 ,37			RK73GB1J101J	CHIP R	100	J 1/16W		
R38			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R39			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R40			RK73GB1J104J	CHIP R	100K	J 1/16W		
R41			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R42			RK73GB1J101J	CHIP R	100	J 1/16W		
R43 ,44			RK73GB1J103J	CHIP R	10K	J 1/16W		
R45			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R46			RK73GB1J562J	CHIP R	5.6K	J 1/16W		
R47 -49			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R50			RK73GB1J101J	CHIP R	100	J 1/16W		

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R51			RK73GB1J473J	CHIP R	47K	J 1/16W		
R52			RK73GB1J103J	CHIP R	10K	J 1/16W		
R53			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R54			RK73GB1J101J	CHIP R	100	J 1/16W		
D1 ,2			MA111	DIODE				
D3			KV1832E	VARIABLE CAPACITANCE DIODE				
D4			MA111	DIODE				
IC1			UPC1687G	ANALOGUE IC				
IC2			LV2105V	MOS-IC				
IC3			UPC2748T-E3	ANALOGUE IC				
Q3			2SC5065(O,Y)	TRANSISTOR				
Q4 -6			2SC4178(F13,14	TRANSISTOR				
Q7			2SA1576A(R,S)	TRANSISTOR				
Q7			2SB1218A(Q,R)	TRANSISTOR				
Q8 -10			2SC4081(R,S)	TRANSISTOR				
Q8 -10			2SD1819A(Q,R)	TRANSISTOR				
Q11 ,12			2SA1576A(R,S)	TRANSISTOR				
Q11 ,12			2SB1218A(Q,R)	TRANSISTOR				
TUNER UNIT (X05-513/514X-XX)								
C1			CK73FB1H332K	CHIP C	3300PF	K		
C2			CK73FB1H103K	CHIP C	0.010UF	K	E1E2	
C3			CK73FB1H103K	CHIP C	0.010UF	K		
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K		
C7			CE04KW1C470M	ELECTRO	47UF	16WV		
C10			CE04KW1C470M	ELECTRO	47UF	16WV		
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K		
C14			CE04KW1H100M	ELECTRO	10UF	50WV		
C15			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C16			CE04RW1HR47M	ELECTRO	0.47UF	50WV		
C17			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C18			CC73FCH1H470J	CHIP C	47PF	J		
C19			CE04RW1A100M	ELECTRO	10UF	10WV		
C20			CK73FB1H473K	CHIP C	0.047UF	K		
C21			CE04RW1V3R3M	ELECTRO	3.3UF	35WV		
C22			CK73FB1H473K	CHIP C	0.047UF	K		
C23			CE04KW1H100M	ELECTRO	10UF	50WV		
C24			CC73FCH1H331J	CHIP C	330PF	J		
C25			CC73FCH1H181J	CHIP C	180PF	J	KP1K1	
C25			CC73FCH1H181J	CHIP C	180PF	J	P2E1E2	
C25			CC73FCH1H331J	CHIP C	330PF	J	V	
C25			CC73FCH1H331J	CHIP C	330PF	J	Y1M1X1	
C26			CK73FB1H183K	CHIP C	0.018UF	K		
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV		
C28 ,29			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K	E1Y1M1	
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K	X1E2V	
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K	KP1K1	
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K	P2	
C32			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C33 ,34			CK73FB1H103K	CHIP C	0.010UF	K	Y1M1V	
C36			CK73FB1H103K	CHIP C	0.010UF	K		
C37 ,38			CE04KW1H100M	ELECTRO	10UF	50WV		
C41			CC73FCH1H470J	CHIP C	47PF	J		
C42			CC73FCH1H270J	CHIP C	27PF	J		

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C43			CC73FCH1H220J	CHIP C	22PF	J		
C44			CC73FCH1H471J	CHIP C	470PF	J		
C45			CC73FCH1H220J	CHIP C	22PF	J		
C46			CE04KW1H100M	ELECTRO	10UF	50WV		
C47			CK73FB1H102K	CHIP C	1000PF	K		
C48			CE04KW1C470M	ELECTRO	47UF	16WV		
C49			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C50			CC73FCH1H101J	CHIP C	100PF	J		
C51			CC73FCH1H471J	CHIP C	470PF	J		
C52			CC73FCH1H101J	CHIP C	100PF	J		
C70 ,71			CK73FB1H822K	CHIP C	8200PF	K	E1E2	
C72			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C73			CE04KW1C470M	ELECTRO	47UF	16WV		
C74			CK73FB1H102K	CHIP C	1000PF	K	KP1K1	
C74			CK73FB1H102K	CHIP C	1000PF	K	P2Y1M1	
C74			CK73FB1H102K	CHIP C	1000PF	K	X1V	
C75			CC73FCH1H030C	CHIP C	3.0PF	C		
C76			CC73FCH1H470J	CHIP C	47PF	J		
C77			CC73FCH1H101J	CHIP C	100PF	J	Y1M1V	
C78			CK73FB1H223K	CHIP C	0.022UF	K		
C79 ,80			CK73FB1H102K	CHIP C	1000PF	K	KP1K1	
C79 ,80			CK73FB1H102K	CHIP C	1000PF	K	P2	
C79 ,80			CK73FB1H122K	CHIP C	1200PF	K	X1	
C79 ,80			CK73FB1H152K	CHIP C	1500PF	K	Y1M1V	
C79 ,80			CK73FB1H472K	CHIP C	4700PF	K	E1E2	
C81			CK73FF1C105Z	CHIP C	1.0UF	Z		
C82			CK73FB1H103K	CHIP C	0.010UF	K		
C84 ,85			CK73FB1H332K	CHIP C	3300PF	K		
C88			CK73FB1H332K	CHIP C	3300PF	K		
C91			CK73FF1C105Z	CHIP C	1.0UF	Z		
C92 ,93			CK73FB1H102K	CHIP C	1000PF	K	KP1K1	
C92 ,93			CK73FB1H102K	CHIP C	1000PF	K	P2Y1M1	
C92 ,93			CK73FB1H102K	CHIP C	1000PF	K	X1V	
C94			CK73FB1H561K	CHIP C	560PF	K		
CN1			E40-3259-05	PIN ASSY				
CN2			E40-4871-05	PIN ASSY				
J1			E70-0080-05	LOCK TERMINAL BOARD			E2V	
J1			E70-0080-05	LOCK TERMINAL BOARD			KP1E1	
J1			E70-0080-05	LOCK TERMINAL BOARD			Y1M1X1	
J1		✻	E70-0141-05	LOCK TERMINAL BOARD			K1P2	
E1			F10-1108-14	SHIELDING PLATE			KP1K1	
E1			F10-1108-14	SHIELDING PLATE			P2Y1M1	
E1			F10-1108-14	SHIELDING PLATE			X1V	
E1			F10-1109-14	SHIELDING PLATE			E1E2	
CF1 ,2			L72-0531-05	CERAMIC FILTER			V	
CF1 ,2			L72-0531-05	CERAMIC FILTER			Y1M1X1	
CF1 ,2			L72-0536-05	CERAMIC FILTER			E1E2	
CF1 ,2			L72-0596-05	CERAMIC FILTER			KP1K1	
CF1 ,2			L72-0596-05	CERAMIC FILTER			P2	
L1			L39-1384-05	COMBINATION COIL				
L2			L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)			E1E2	
L3			L30-0911-05	AM IFT				
L4			L30-0950-05	FM IFT				
L5			L30-0951-05	FM IFT				

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L6 ,7			L79-1239-05	LC FILTER				E1E2	
X1			L77-2187-05	CRYSTAL RESONATOR(7.2MHZ)					
R1			RK73FB2A101J	CHIP R	100	J	1/10W		
R4			RK73FB2A681J	CHIP R	680	J	1/10W		
R5			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R6			RK73FB2A221J	CHIP R	220	J	1/10W		
R7			RK73FB2A821J	CHIP R	820	J	1/10W		
R8			RK73FB2A100J	CHIP R	10	J	1/10W	E1E2	
R8			RK73FB2A330J	CHIP R	33	J	1/10W	KP1K1	
R8			RK73FB2A330J	CHIP R	33	J	1/10W	P2Y1M1	
R8			RK73FB2A330J	CHIP R	33	J	1/10W	X1V	
R9			RK73FB2A391J	CHIP R	390	J	1/10W		
R10			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R11			RK73FB2A220J	CHIP R	22	J	1/10W	E1E2	
R11			RK73FB2A330J	CHIP R	33	J	1/10W	KP1K1	
R11			RK73FB2A330J	CHIP R	33	J	1/10W	P2Y1M1	
R11			RK73FB2A330J	CHIP R	33	J	1/10W	X1V	
R12			RK73FB2A101J	CHIP R	100	J	1/10W		
R14			RK73FB2A101J	CHIP R	100	J	1/10W		
R15			RK73FB2A333J	CHIP R	33K	J	1/10W		
R16			RK73FB2A220J	CHIP R	22	J	1/10W		
R17			RK73FB2A362J	CHIP R	3.6K	J	1/10W		
R18			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R19			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R20			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R23			RK73FB2A153J	CHIP R	15K	J	1/10W	E1E2	
R23			RK73FB2A472J	CHIP R	4.7K	J	1/10W	KP1K1	
R23			RK73FB2A472J	CHIP R	4.7K	J	1/10W	P2Y1M1	
R23			RK73FB2A682J	CHIP R	6.8K	J	1/10W	X1V	
R25			RK73FB2A183J	CHIP R	18K	J	1/10W	KP1K1	
R25			RK73FB2A183J	CHIP R	18K	J	1/10W	P2Y1M1	
R25			RK73FB2A183J	CHIP R	18K	J	1/10W	X1V	
R25			RK73FB2A273J	CHIP R	27K	J	1/10W	E1E2	
R27 ,28			RK73FB2A432J	CHIP R	4.3K	J	1/10W	E1E2	
R27 ,28			RK73FB2A682J	CHIP R	6.8K	J	1/10W	KP1K1	
R27 ,28			RK73FB2A682J	CHIP R	6.8K	J	1/10W	P2Y1M1	
R27 ,28			RK73FB2A682J	CHIP R	6.8K	J	1/10W	X1V	
R29			RK73FB2A102J	CHIP R	1.0K	J	1/10W	Y1M1V	
R30			RK73FB2A561J	CHIP R	560	J	1/10W	Y1M1V	
R31			RK73FB2A473J	CHIP R	47K	J	1/10W	Y1M1V	
R33 ,34			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R35			RK73FB2A101J	CHIP R	100	J	1/10W	E1E2	
R36			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E1E2	
R37			RK73FB2A392J	CHIP R	3.9K	J	1/10W	E1E2	
R38			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E1E2	
R39			RK73FB2A103J	CHIP R	10K	J	1/10W	E1E2	
R42			RK73FB2A103J	CHIP R	10K	J	1/10W		
R43			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R44			RD14NB2E271J	RD	270	J	1/4W		
R45			RK73EB2B332J	CHIP R	3.3K	J	1/8W		
R46			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R47			RK73EB2B332J	CHIP R	3.3K	J	1/8W		
R48			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R49			RK73FB2A103J	CHIP R	10K	J	1/10W		

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⚠ R50			RD14NB2E471J	RD 470 J 1/4W		
R51			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R52			RK73FB2A101J	CHIP R 100 J 1/10W		
R53			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R54			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R55			RK73FB2A333J	CHIP R 33K J 1/10W		
R56 ,57			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R58			RK73FB2A123J	CHIP R 12K J 1/10W		
R59			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R72 ,73			RK73FB2A333J	CHIP R 33K J 1/10W	KP1K1	
R72 ,73			RK73FB2A333J	CHIP R 33K J 1/10W	P2Y1M1	
R72 ,73			RK73FB2A333J	CHIP R 33K J 1/10W	X1V	
R72 ,73			RK73FB2A392J	CHIP R 3.9K J 1/10W	E1E2	
R74			RK73FB2A473J	CHIP R 47K J 1/10W		
R75			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R76			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R78			RK73FB2A821J	CHIP R 820 J 1/10W		
R79			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R80			RK73FB2A223J	CHIP R 22K J 1/10W	E1E2	
⚠ R81			RS14KB3A151J	FL-PROOF RS 150 J 1W		
R82			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R84			RK73EB2B332J	CHIP R 3.3K J 1/8W		
R85 -87			RK73FB2A333J	CHIP R 33K J 1/10W		
R88			RK73FB2A563J	CHIP R 56K J 1/10W		
R89			RK73FB2A333J	CHIP R 33K J 1/10W		
R90			RK73FB2A681J	CHIP R 680 J 1/10W		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR		
W51 ,52			R92-0670-05	CHIP R 0 OHM		
W54 ,55			R92-0670-05	CHIP R 0 OHM		
W56			R92-0670-05	CHIP R 0 OHM	Y1M1V	
W59 ,60			R92-0670-05	CHIP R 0 OHM		
W62			R92-0670-05	CHIP R 0 OHM		
W80			R92-0679-05	CHIP R 0 OHM		
W82 -85			R92-0679-05	CHIP R 0 OHM	KP1K1	
W82 -85			R92-0679-05	CHIP R 0 OHM	P2Y1M1	
W82 -85			R92-0679-05	CHIP R 0 OHM	X1V	
W84 ,85			R92-0679-05	CHIP R 0 OHM	E1E2	
S1			S62-0034-05	SLIDE SWITCH	Y1M1V	
D1			DA204U	DIODE		
D1			MA143A	DIODE		
D1			1SS302	DIODE		
D3			MTZJ8.2(B)	ZENER DIODE		
D3			RD8.2ES(B2)	ZENER DIODE		
D4			MTZJ5.1(B)	ZENER DIODE		
D4			RD5.1ES(B2)	ZENER DIODE		
D5			MTZJ2.7(B)	ZENER DIODE		
D5			RD2.7ES(B2)	ZENER DIODE		
D8			MA111	DIODE		
D9			MTZJ3.3(B)	ZENER DIODE		
D9			RD3.3ES(B2)	ZENER DIODE		
D11			MA111	DIODE	E1E2	
D13			MA111	DIODE		
IC1			LA1837	ANALOGUE IC		

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IC2			LC72131	MOS-IC		
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SC4116(Y,GR)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q2			2SA1586(Y,GR)	TRANSISTOR		
Q3 ,4			2SC4081(R,S)	TRANSISTOR	Y1M1V	
Q3 ,4			2SC4116(Y,GR)	TRANSISTOR	Y1M1V	
Q6 ,7			2SC4081(R,S)	TRANSISTOR	E1E2	
Q6 ,7			2SC4116(Y,GR)	TRANSISTOR	E1E2	
Q10 ,11			2SD1757K	TRANSISTOR		
Q12			2SA1576A(R,S)	TRANSISTOR		
Q12			2SA1586(Y,GR)	TRANSISTOR		
Q14			2SA1576A(R,S)	TRANSISTOR		
Q14			2SA1586(Y,GR)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY	E1E2	
A1			W02-2622-05	FM FRONT-END ASSY	KP1K1	
A1			W02-2622-05	FM FRONT-END ASSY	P2Y1M1	
A1			W02-2622-05	FM FRONT-END ASSY	X1V	
POWER AMPLIFIER UNIT (X07-334/335X-XX)						
C1 -4			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C5 ,6			CC45FSL1H680J	CERAMIC 68PF J		
C11 ,12			CK45FB1H222K	CERAMIC 2200PF K		
C13 ,14			CC45FCH1H050C	CERAMIC 5.0PF C		
C15 ,16			CC45FSL1H101J	CERAMIC 100PF J		
C17 ,18			CE04KW1H100M	ELECTRO 10UF 50WV		
C19 ,20			CK45FF1H103Z	CERAMIC 0.010UF Z		
C21 ,22			CC45FSL1H151J	CERAMIC 150PF J		
C23 ,24			CC45FSL2H470J	CERAMIC 47PF J		
C25 ,26			CC45FSL1H070D	CERAMIC 7.0PF D		
C27 ,28			CE04KW1A221M	ELECTRO 220UF 10WV		
C51 -54			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C55 ,56			CC45FSL1H680J	CERAMIC 68PF J		
C61 ,62			CK45FB1H222K	CERAMIC 2200PF K		
C63 ,64			CC45FCH1H050C	CERAMIC 5.0PF C		
C65 ,66			CC45FSL1H101J	CERAMIC 100PF J		
C67 ,68			CE04KW1H100M	ELECTRO 10UF 50WV		
C69 ,70			CK45FF1H103Z	CERAMIC 0.010UF Z		
C71 ,72			CC45FSL1H151J	CERAMIC 150PF J		
C73 ,74			CC45FSL2H470J	CERAMIC 47PF J		
C75 ,76			CC45FSL1H070D	CERAMIC 7.0PF D		
C77 ,78			CE04KW1A221M	ELECTRO 220UF 10WV		
C101,102			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C103			CC45FSL1H680J	CERAMIC 68PF J		
C106			CK45FB1H222K	CERAMIC 2200PF K		
C107			CC45FCH1H050C	CERAMIC 5.0PF C		
C108			CC45FSL1H101J	CERAMIC 100PF J		
C109			CE04KW1A221M	ELECTRO 220UF 10WV		
C110			CK45FF1H103Z	CERAMIC 0.010UF Z		
C111			CE04KW1H100M	ELECTRO 10UF 50WV		
C112			CC45FSL1H151J	CERAMIC 150PF J		
C113			CC45FSL2H470J	CERAMIC 47PF J		
C114			CC45FSL1H070D	CERAMIC 7.0PF D		
C115			CE04KW1H220M	ELECTRO 22UF 50WV		
C116			CE04KW1E470M	ELECTRO 47UF 25WV		

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C117			CE04KW1H220M	ELECTRO	22UF	50WV		
C118			CC45FSL1H101J	CERAMIC	100PF	J		
C119			CE04KW1E470M	ELECTRO	47UF	25WV		
C201-205			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C251-254			CF92FV1H224J	MF-C	0.22UF	J	E1Y1M1	
C251-254			CF92FV1H224J	MF-C	0.22UF	J	X1E2V	
C255,256			CF92FV1H104J	MF-C	0.10UF	J	KP1K1	
C255,256			CF92FV1H104J	MF-C	0.10UF	J	P2	
C257,258			CQ93FMG1H272J	MYLAR	2700PF	J		
C259-262			CF92FV1H224J	MF-C	0.22UF	J	E1Y1M1	
C259-262			CF92FV1H224J	MF-C	0.22UF	J	X1E2V	
C263,264			CF92FV1H104J	MF-C	0.10UF	J	KP1K1	
C263,264			CF92FV1H104J	MF-C	0.10UF	J	P2	
C265,266			CQ93FMG1H393J	MYLAR	0.039UF	J		
C267,268			CK45FB1H102K	CERAMIC	1000PF	K		
C269,270			CF92FV1H224J	MF-C	0.22UF	J	E1Y1M1	
C269,270			CF92FV1H224J	MF-C	0.22UF	J	X1E2V	
C271			CF92FV1H104J	MF-C	0.10UF	J	KP1K1	
C271			CF92FV1H104J	MF-C	0.10UF	J	P2	
C301			CE04KW1A101M	ELECTRO	100UF	10WV		
C302			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C303			CE04KW1H220M	ELECTRO	22UF	50WV		
C304			CE04KW1H470M	ELECTRO	47UF	50WV		
C305			CE04KW1E470M	ELECTRO	47UF	25WV		
C306,307			CE04KW2A100M	ELECTRO	10UF	100WV		
C308			CE04KW2A470M	ELECTRO	47UF	100WV		
C309,310			CE04KW2A220M	ELECTRO	22UF	100WV		
C351,352			CE04KW2A100M	ELECTRO	10UF	100WV		
C401,402			C90-3868-05	ELECTRO	8200UF	73WV		
C403			C91-1422-05	MP	0.10UF	250WV		
C404			CK45FE2H103P	CERAMIC	0.010UF	P	KP1K1	
C404			CK45FE2H103P	CERAMIC	0.010UF	P	P2	
C405,406			CK45FE2H103P	CERAMIC	0.010UF	P		
C451			CQ93FMG1H473J	MYLAR	0.047UF	J		
C452			CE04KW1E102M	ELECTRO	1000UF	25WV		
⚠ C453			C91-1488-05	MF	6800PF	250VAC		
⚠ C454			C91-1488-05	MF	6800PF	250VAC	Y1M1	
⚠ C455		✻	C91-1627-05	POLYESTE	0.1UF	250VAC		
C456			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C567-571			CC45FSL1H221J	CERAMIC	220PF	J		
CN1			E40-4879-05	PIN ASSY				
CN3			E40-8251-05	FLAT CABLE CONNECTOR				
CN4			E40-8255-05	FLAT CABLE CONNECTOR				
CN5			E40-4294-05	FLAT CABLE CONNECTOR				
CN6			E40-3247-05	PIN ASSY				
CN7			E40-3246-05	PIN ASSY				
CN8			E40-3247-05	PIN ASSY				
CN10			E40-4245-05	PIN ASSY				
CN11			E40-4245-05	PIN ASSY			E2V	
CN11			E40-4245-05	PIN ASSY			KP1K1	
CN11			E40-4245-05	PIN ASSY			P2E1X1	
CN12			E40-4281-05	PIN ASSY			Y1M1	
J1		✻	E70-0131-05	SCREW TERMINAL BOARD				
⚠ J2			E03-0148-05	AC OUTLET			KP1K1	
⚠ J2			E03-0148-05	AC OUTLET			P2Y1	

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⚠ J2			E03-0149-05	AC OUTLET				E1M1E2	
⚠ J2			E03-0325-05	AC OUTLET				X1	
⚠ J2			E03-0361-05	AC OUTLET				V	
⚠ F1			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			Y1M1	
⚠ F1			F05-4025-05	FUSE (SEMKO)	(250V T4A L)			E1X1E2	
⚠ F1			F50-0078-05	FUSE(5X20)				KP1K1	
⚠ F1			F50-0078-05	FUSE(5X20)				P2	
⚠ F1			F50-0112-05	FUSE(5X20)				V	
⚠ F2			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			Y1M1	
⚠ F3			F05-2525-05	FUSE (SEMKO)	(250V T2.5AL)			E1E2	
⚠ FAN	1B		F09-0139-05	FAN					
CN31,32			J13-0075-05	FUSE CLIP					
CN33,34			J13-0075-05	FUSE CLIP				Y1M1	
CN35,36			J13-0075-05	FUSE CLIP				E1E2	
E2			J11-0808-05	WIRE CLAMPER					
L1 -5			L39-0085-05	PHASE COMPENSATION COIL					
⚠ T1		✻	L07-2936-05	POWER TRANSFORMER				E1X1E2	
⚠ T1		✻	L07-2936-05	POWER TRANSFORMER				V	
⚠ T1		✻	L07-2937-05	POWER TRANSFORMER				Y1M1	
⚠ T1		✻	L07-2939-05	POWER TRANSFORMER				KP1K1	
⚠ T1		✻	L07-2939-05	POWER TRANSFORMER				P2	
R23 ,24			RD14NB2E101J	RD	100	J	1/4W		
R29 -32			RD14NB2E221J	RD	220	J	1/4W		
R73 ,74			RD14NB2E101J	RD	100	J	1/4W		
R79 -82			RD14NB2E221J	RD	220	J	1/4W		
R112			RD14NB2E101J	RD	100	J	1/4W		
R115,116			RD14NB2E221J	RD	220	J	1/4W		
⚠ R155			RD14NB2E220J	RD	22	J	1/4W		
R201-204			RD14NB2E470J	RD	47	J	1/4W		
R205,206			RD14NB2E151J	RD	150	J	1/4W		
R207-210			RD14NB2E101J	RD	100	J	1/4W		
R213-216			RD14NB2E332J	RD	3.3K	J	1/4W		
R229,230			RD14NB2E220J	RD	22	J	1/4W		
R251-254			RD14NB2E470J	RD	47	J	1/4W		
R255,256			RD14NB2E151J	RD	150	J	1/4W		
R257-260			RD14NB2E101J	RD	100	J	1/4W		
R263-266			RD14NB2E332J	RD	3.3K	J	1/4W		
R279,280			RD14NB2E220J	RD	22	J	1/4W		
R301,302			RD14NB2E470J	RD	47	J	1/4W		
R303			RD14NB2E151J	RD	150	J	1/4W		
R304,305			RD14NB2E101J	RD	100	J	1/4W		
R307,308			RD14NB2E332J	RD	3.3K	J	1/4W		
R315			RD14NB2E220J	RD	22	J	1/4W		
R351-355			RS14KB3D2R7J	FL-PROOF RS	2.7	J	2W		
⚠ R356-359			RD14NB2E271J	RD	270	J	1/4W		
R360,361			RS14KB3D471J	FL-PROOF RS	470	J	2W		
⚠ R362			RD14NB2E271J	RD	270	J	1/4W		
⚠ R394			RD14NB2E100J	RD	10	J	1/4W		
⚠ R395			RD14NB2E682J	RD	6.8K	J	1/4W		
R398			RD14NB2E272J	RD	2.7K	J	1/4W		
⚠ R451,452			RD14NB2E560J	RD	56	J	1/4W		
⚠ R502			R92-1844-05	CARBON	3.3M	J	1/2W	KP1K1	
⚠ R502			R92-1844-05	CARBON	3.3M	J	1/2W	P2	

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⚠ R506			RD14NB2E1R0J	RD 1 J 1/4W		
R510			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
VR1 -5			R32-0030-05	SEMI FIXED VARIABLE RESISTOR		
K1 -5			S76-0076-05	MAGNETIC RELAY		
⚠ K6			S76-0106-05	MAGNETIC RELAY		
⚠ S1			S31-3010-05	SLIDE SWITCH	Y1M1	
D1 -4			HSS104A	DIODE		
D1 -4			1SS133	DIODE		
D11 -14			HSS104A	DIODE		
D11 -14			1SS133	DIODE		
D21 ,22			HSS104A	DIODE		
D21 ,22			1SS133	DIODE		
D51 ,52			1SS244	DIODE		
D53 -62			HSS104A	DIODE		
D53 -62			1SS133	DIODE		
D71 ,72			1SS244	DIODE		
D73 -82			HSS104A	DIODE		
D73 -82			1SS133	DIODE		
D91			1SS244	DIODE		
D92 -96			HSS104A	DIODE		
D92 -96			1SS133	DIODE		
⚠ D100			RBV-1506LFA	DIODE		
⚠ D101,102			S5688B	DIODE		
D103			MTZJ13(B)	ZENER DIODE		
D103			RD13ES(B2)	ZENER DIODE		
D104			MTZJ15(B)	ZENER DIODE		
D104			RD15ES(B2)	ZENER DIODE		
D105,106			MTZJ4.7(B)	ZENER DIODE		
D105,106			RD4.7ES(B2)	ZENER DIODE		
D107,108			HSS104A	DIODE		
D107,108			1SS133	DIODE		
D109			MTZJ5.1(B)	ZENER DIODE		
D109			RD5.1ES(B2)	ZENER DIODE		
D111-115			HSS104A	DIODE		
D111-115			1SS133	DIODE		
D121,122			MTZJ18(B)	ZENER DIODE		
D121,122			RD18ES(B2)	ZENER DIODE		
D123,124			MTZJ20(B)	ZENER DIODE		
D123,124			RD20ES(B2)	ZENER DIODE		
D251			MTZJ5.1(B)	ZENER DIODE		
D251			RD5.1ES(B2)	ZENER DIODE		
D252,253			HSS104A	DIODE		
D252,253			1SS133	DIODE		
D502			HSS104A	DIODE		
D502			1SS133	DIODE		
⚠ D503-508			S5688B	DIODE		
⚠ D509			HSS104A	DIODE		
⚠ D509			1SS133	DIODE		
⚠ D510			S5688B	DIODE		
D511-513			HSS104A	DIODE		
D511-513			1SS133	DIODE		
D514			MTZJ4.7(B)	ZENER DIODE		
D514			RD4.7ES(B2)	ZENER DIODE		
Q1 ,2			2SC2878(B)	TRANSISTOR		

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Q3 -6			2SA992(F,E)	TRANSISTOR		
Q7 ,8			2SA1123(R,S)	TRANSISTOR		
Q9 -12			2SC2631(R,S)	TRANSISTOR		
Q13 ,14			2SA1048(Y,GR)	TRANSISTOR		
Q13 ,14			2SA933AS(Q,R)	TRANSISTOR		
Q51 ,52			2SC2878(B)	TRANSISTOR		
Q53 -56			2SA992(F,E)	TRANSISTOR		
Q57 ,58			2SA1123(R,S)	TRANSISTOR		
Q59 -62			2SC2631(R,S)	TRANSISTOR		
Q63 ,64			2SA1048(Y,GR)	TRANSISTOR		
Q63 ,64			2SA933AS(Q,R)	TRANSISTOR		
Q101			2SC2878(B)	TRANSISTOR		
Q102,103			2SA992(F,E)	TRANSISTOR		
Q104,105			2SC2631(R,S)	TRANSISTOR		
Q106			2SA1123(R,S)	TRANSISTOR		
Q107			2SA1048(Y,GR)	TRANSISTOR		
Q107			2SA933AS(Q,R)	TRANSISTOR		
⚠ Q108			2SC1740S(Q,R)	TRANSISTOR		
⚠ Q108			2SC2458(Y,GR)	TRANSISTOR		
Q109			DTC124ESA	DIGITAL TRANSISTOR		
Q109			UN4212	DIGITAL TRANSISTOR		
⚠ Q201,202		✻	TRAIT8N*5	TRANSISTOR		
⚠ Q203,204		✻	TRAIT8P*5	TRANSISTOR		
Q205,206			2SC1845(F,E)	TRANSISTOR		
Q207,208			2SA992(F,E)	TRANSISTOR		
⚠ Q251,252		✻	TRAIT8N*5	TRANSISTOR		
⚠ Q253,254		✻	TRAIT8P*5	TRANSISTOR		
Q255,256			2SC1845(F,E)	TRANSISTOR		
Q257,258			2SA992(F,E)	TRANSISTOR		
⚠ Q301		✻	TRAIT8N*5	TRANSISTOR		
⚠ Q302		✻	TRAIT8P*5	TRANSISTOR		
Q303			2SC1845(F,E)	TRANSISTOR		
Q304			2SA992(F,E)	TRANSISTOR		
Q351-354			DTC113ZSA	DIGITAL TRANSISTOR		
Q351-354			UN4219	DIGITAL TRANSISTOR		
Q381,382			2SC1845(F,E)	TRANSISTOR		
Q383,384			2SA992(F,E)	TRANSISTOR		
Q401			DTC124ESA	DIGITAL TRANSISTOR		
Q401			UN4212	DIGITAL TRANSISTOR		
Q402,403			DTC113ZSA	DIGITAL TRANSISTOR		
Q402,403			UN4219	DIGITAL TRANSISTOR		
⚠ Q404			2SD2012	TRANSISTOR		
Q405,406			2SC1740S(Q,R)	TRANSISTOR		
Q405,406			2SC2458(Y,GR)	TRANSISTOR		
⚠ Q407			2SA1110(R,S)	TRANSISTOR		
Q408			2SC2003(L,K)	TRANSISTOR		
Q530			2SA1048(Y,GR)	TRANSISTOR		
Q530			2SA933AS(Q,R)	TRANSISTOR		
SURROUND UNIT (X08-309/310X-XX)						
C1			CC73GCH1H470J	CHIP C 47PF J		
C2			CK73GB1H103K	CHIP C 0.010UF K		
C4			CC73GCH1H470J	CHIP C 47PF J		
C11			CC73GCH1H470J	CHIP C 47PF J		
C12			CK73GB1H103K	CHIP C 0.010UF K		

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C14			CC73GCH1H470J	CHIP C	47PF	J		
C15			CC73GCH1H102J	CHIP C	1000PF	J		
C21			CC73GCH1H470J	CHIP C	47PF	J		
C22			CK73GB1H103K	CHIP C	0.010UF	K		
C24			CC73GCH1H470J	CHIP C	47PF	J		
C31			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C32			CK73GB1H103K	CHIP C	0.010UF	K	K1P2	
C34			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C35			CC73GCH1H102J	CHIP C	1000PF	J	K1P2	
C41			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C42			CK73GB1H103K	CHIP C	0.010UF	K	K1P2	
C44			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C51			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C52			CK73GB1H103K	CHIP C	0.010UF	K	K1P2	
C54			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C55			CC73GCH1H102J	CHIP C	1000PF	J	K1P2	
C61			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C62			CK73GB1H103K	CHIP C	0.010UF	K	K1P2	
C64			CC73GCH1H470J	CHIP C	47PF	J	K1P2	
C71			CC73GCH1H102J	CHIP C	1000PF	J	K1P2	
C72			CC73GCH1H220J	CHIP C	22PF	J	K1P2	
C73			CK73GF1E104Z	CHIP C	0.10UF	Z	K1P2	
C74			CC73GCH1H220J	CHIP C	22PF	J	K1P2	
C75			CC73GCH1H102J	CHIP C	1000PF	J		
C76			CC73GCH1H270J	CHIP C	27PF	J		
C101			CK73GF1E104Z	CHIP C	0.10UF	Z		
C102			CC73GCH1H102J	CHIP C	1000PF	J		
C103,104			CC73GCH1H220J	CHIP C	22PF	J		
C105			CK73GF1E104Z	CHIP C	0.10UF	Z		
C107-109			CK73GF1E104Z	CHIP C	0.10UF	Z		
C110			CK73GB1H103K	CHIP C	0.010UF	K		
C111			CE04KW1H100M	ELECTRO	10UF	50WV		
C112			CC73GCH1H470J	CHIP C	47PF	J		
C113			CC73GCH1H150J	CHIP C	15PF	J		
C114			CC73GCH1H470J	CHIP C	47PF	J		
C116			CE04KW1A101M	ELECTRO	100UF	10WV		
C201			CE04KW1H100M	ELECTRO	10UF	50WV		
C202			CC73GCH1H102J	CHIP C	1000PF	J		
C203			CE04KW1A101M	ELECTRO	100UF	10WV		
C205			CE04KW1E470M	ELECTRO	47UF	25WV		
C206			CC73GCH1H102J	CHIP C	1000PF	J		
C207			CE04KW1H100M	ELECTRO	10UF	50WV		
C208			CE04KW1E470M	ELECTRO	47UF	25WV		
C212			CC73GCH1H470J	CHIP C	47PF	J		
C213-216			CC73GCH1H471J	CHIP C	470PF	J		
C221,222			CE04KW1H100M	ELECTRO	10UF	50WV		
C223,224			CC73GCH1H101J	CHIP C	100PF	J		
C225,226			CC73GCH1H151J	CHIP C	150PF	J		
C227,228			CC73GCH1H101J	CHIP C	100PF	J		
C229,230			CE04KW1E470M	ELECTRO	47UF	25WV		
C231,232			CC73GCH1H220J	CHIP C	22PF	J		
C233,234			CK73GB1H222K	CHIP C	2200PF	K		
C235,236			CC73GCH1H101J	CHIP C	100PF	J		
C301			CK73GF1E104Z	CHIP C	0.10UF	Z		
C302			CE04KW1A101M	ELECTRO	100UF	10WV		

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C303			CC73GCH1H102J	CHIP C	1000PF	J		
C304			CE04KW1H100M	ELECTRO	10UF	50WV		
C305			CC73GCH1H101J	CHIP C	100PF	J		
C306			CE04KW1H100M	ELECTRO	10UF	50WV		
C307			CC73GCH1H101J	CHIP C	100PF	J		
C311,312			CQ93FMG1H272J	MYLAR	2700PF	J		
C313,314			CC73GCH1H220J	CHIP C	22PF	J		
C315-320			CC73GCH1H101J	CHIP C	100PF	J		
C321,322			CQ93FMG1H223J	MYLAR	0.022UF	J		
C323,324			CC73GCH1H101J	CHIP C	100PF	J		
C325,326			CQ93FMG1H102J	MYLAR	1000PF	J		
C327,328			CQ93FMG1H472J	MYLAR	4700PF	J		
C329,330			CC73GCH1H101J	CHIP C	100PF	J		
C331,332			CC73GCH1H050C	CHIP C	5.0PF	C		
C351			CK73GF1E104Z	CHIP C	0.10UF	Z		
C352			CE04KW1A101M	ELECTRO	100UF	10WV		
C353			CC73GCH1H102J	CHIP C	1000PF	J		
C354			CE04KW1H100M	ELECTRO	10UF	50WV		
C355			CC73GCH1H101J	CHIP C	100PF	J		
C356			CE04KW1H100M	ELECTRO	10UF	50WV		
C357			CC73GCH1H101J	CHIP C	100PF	J		
C361,362			CQ93FMG1H272J	MYLAR	2700PF	J		
C363,364			CC73GCH1H220J	CHIP C	22PF	J		
C365-370			CC73GCH1H101J	CHIP C	100PF	J		
C371,372			CQ93FMG1H223J	MYLAR	0.022UF	J		
C373,374			CC73GCH1H101J	CHIP C	100PF	J		
C375,376			CQ93FMG1H102J	MYLAR	1000PF	J		
C377,378			CQ93FMG1H472J	MYLAR	4700PF	J		
C379,380			CC73GCH1H101J	CHIP C	100PF	J		
C381,382			CC73GCH1H050C	CHIP C	5.0PF	C		
C401			CK73GF1E104Z	CHIP C	0.10UF	Z		
C402			CE04KW1A101M	ELECTRO	100UF	10WV		
C403			CC73GCH1H102J	CHIP C	1000PF	J		
C404			CE04KW1H100M	ELECTRO	10UF	50WV		
C405			CC73GCH1H101J	CHIP C	100PF	J		
C406			CE04KW1H100M	ELECTRO	10UF	50WV		
C407			CC73GCH1H101J	CHIP C	100PF	J		
C411			CQ93FMG1H272J	MYLAR	2700PF	J		
C412			CQ93FMG1H103J	MYLAR	0.010UF	J		
C413,414			CC73GCH1H220J	CHIP C	22PF	J		
C415-417			CC73GCH1H101J	CHIP C	100PF	J		
C418			CK73GB1H272K	CHIP C	2700PF	K		
C419,420			CC73GCH1H101J	CHIP C	100PF	J		
C421,422			CQ93FMG1H223J	MYLAR	0.022UF	J		
C423,424			CC73GCH1H101J	CHIP C	100PF	J		
C425			CQ93FMG1H102J	MYLAR	1000PF	J		
C426			CQ93FMG1H272J	MYLAR	2700PF	J		
C427			CQ93FMG1H472J	MYLAR	4700PF	J		
C428			CQ93FMG1H223J	MYLAR	0.022UF	J		
C429,430			CC73GCH1H101J	CHIP C	100PF	J		
C431,432			CC73GCH1H050C	CHIP C	5.0PF	C		
C451			CK73GF1E104Z	CHIP C	0.10UF	Z		
C452			CE04KW1A101M	ELECTRO	100UF	10WV		
C453			CC73GCH1H102J	CHIP C	1000PF	J		
C454			CE04KW1H100M	ELECTRO	10UF	50WV		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C455			CC73GCH1H101J	CHIP C	100PF	J		
C456			CE04KW1H100M	ELECTRO	10UF	50WV		
C457			CC73GCH1H101J	CHIP C	100PF	J		
C461,462			CQ93FMG1H272J	MYLAR	2700PF	J		
C463,464			CC73GCH1H220J	CHIP C	22PF	J		
C465-470			CC73GCH1H101J	CHIP C	100PF	J		
C471,472			CQ93FMG1H223J	MYLAR	0.022UF	J		
C473,474			CC73GCH1H101J	CHIP C	100PF	J		
C475,476			CQ93FMG1H102J	MYLAR	1000PF	J		
C477,478			CQ93FMG1H472J	MYLAR	4700PF	J		
C479,480			CC73GCH1H101J	CHIP C	100PF	J		
C481,482			CC73GCH1H050C	CHIP C	5.0PF	C		
C601-605			CC73GCH1H102J	CHIP C	1000PF	J		
C606,607			CC73GCH1H090D	CHIP C	9.0PF	D		
C608-630			CC73GCH1H102J	CHIP C	1000PF	J		
C631			CK73GB1H103K	CHIP C	0.010UF	K		
C632-634			CC73GCH1H102J	CHIP C	1000PF	J		
C701-706			CC73GCH1H102J	CHIP C	1000PF	J		
C707			CK73GB1H103K	CHIP C	0.010UF	K		
C801,802			CK73GB1H103K	CHIP C	0.010UF	K		
C803			CE04KW1H100M	ELECTRO	10UF	50WV		
C804			CK73GB1H103K	CHIP C	0.010UF	K		
C805			CC73GCH1H102J	CHIP C	1000PF	J		
C806			CK73GB1H103K	CHIP C	0.010UF	K		
C951			CE04KW1E470M	ELECTRO	47UF	25WV		
C954			CE04KW1E470M	ELECTRO	47UF	25WV		
C955			CE04DW1A102M	ELECTRO	1000UF	10WV		
C956			CK73GB1H103K	CHIP C	0.010UF	K		
C958			CE04KW1A101M	ELECTRO	100UF	10WV		
C959			CE04KW1H100M	ELECTRO	10UF	50WV		
C960			CC73GCH1H102J	CHIP C	1000PF	J		
C961			CK73GB1H103K	CHIP C	0.010UF	K		
C963			CE04KW1A101M	ELECTRO	100UF	10WV		
C965			CE04KW1E470M	ELECTRO	47UF	25WV		
CN1 ,2			E40-9836-05	SOCKET FOR PIN ASSY				
CN3			E40-9832-05	SOCKET FOR PIN ASSY				
J1			E63-1128-05	PIN JACK			K1P2	
J2			E63-1129-05	PIN JACK			E2V	
J2			E63-1129-05	PIN JACK			KP1E1	
J2			E63-1129-05	PIN JACK			Y1M1X1	
J2			E63-1130-05	PIN JACK			K1P2	
J3 ,4			E63-1124-05	PIN JACK			K1P2	
⚠ L1 ,2			L40-4795-34	SMALL FIXED INDUCTOR(4.7UH)				
X1		✻	L77-2337-05	CRYSTAL RESONATOR(12.288MHZ)				
X2		✻	L77-2314-05	CRYSTAL RESONATOR(33MHZ)				
X3			L78-0604-05	RESONATOR	(6.00MHZ)			
R1			RK73GB1J750J	CHIP R	75	J 1/16W		
R2			RK73GB1J751J	CHIP R	750	J 1/16W		
R3			RK73GB1J104J	CHIP R	100K	J 1/16W		
R4			RK73GB1J184J	CHIP R	180K	J 1/16W		
R5			RK73GB1J470J	CHIP R	47	J 1/16W		
R7			RK73GB1J151J	CHIP R	150	J 1/16W		
R11			RK73GB1J750J	CHIP R	75	J 1/16W		
R12			RK73GB1J751J	CHIP R	750	J 1/16W		

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R13			RK73GB1J104J	CHIP R	100K	J 1/16W		
R14			RK73GB1J184J	CHIP R	180K	J 1/16W		
R15			RK73GB1J470J	CHIP R	47	J 1/16W		
R17			RK73GB1J151J	CHIP R	150	J 1/16W		
⚠ R18			RK73FB2A100J	CHIP R	10	J 1/10W		
R21			RK73GB1J750J	CHIP R	75	J 1/16W		
R22			RK73GB1J751J	CHIP R	750	J 1/16W		
R23			RK73GB1J104J	CHIP R	100K	J 1/16W		
R24			RK73GB1J184J	CHIP R	180K	J 1/16W		
R25			RK73GB1J470J	CHIP R	47	J 1/16W		
R27			RK73GB1J151J	CHIP R	150	J 1/16W		
R31			RK73GB1J750J	CHIP R	75	J 1/16W	K1P2	
R32			RK73GB1J751J	CHIP R	750	J 1/16W	K1P2	
R33			RK73GB1J104J	CHIP R	100K	J 1/16W	K1P2	
R34			RK73GB1J184J	CHIP R	180K	J 1/16W	K1P2	
R35			RK73GB1J470J	CHIP R	47	J 1/16W	K1P2	
R36			RK73GB1J103J	CHIP R	10K	J 1/16W	E2V	
R36			RK73GB1J103J	CHIP R	10K	J 1/16W	KP1E1	
R36			RK73GB1J103J	CHIP R	10K	J 1/16W	Y1M1X1	
R37			RK73GB1J151J	CHIP R	150	J 1/16W	K1P2	
R41			RK73GB1J750J	CHIP R	75	J 1/16W	K1P2	
R42			RK73GB1J751J	CHIP R	750	J 1/16W	K1P2	
R43			RK73GB1J104J	CHIP R	100K	J 1/16W	K1P2	
R44			RK73GB1J184J	CHIP R	180K	J 1/16W	K1P2	
R45			RK73GB1J470J	CHIP R	47	J 1/16W	K1P2	
R46			RK73GB1J103J	CHIP R	10K	J 1/16W	E2V	
R46			RK73GB1J103J	CHIP R	10K	J 1/16W	KP1E1	
R46			RK73GB1J103J	CHIP R	10K	J 1/16W	Y1M1X1	
R47			RK73GB1J151J	CHIP R	150	J 1/16W	K1P2	
⚠ R48			RK73FB2A100J	CHIP R	10	J 1/10W	K1P2	
R51			RK73GB1J750J	CHIP R	75	J 1/16W	K1P2	
R52			RK73GB1J751J	CHIP R	750	J 1/16W	K1P2	
R53			RK73GB1J104J	CHIP R	100K	J 1/16W	K1P2	
R54			RK73GB1J184J	CHIP R	180K	J 1/16W	K1P2	
R55			RK73GB1J470J	CHIP R	47	J 1/16W	K1P2	
R56			RK73GB1J103J	CHIP R	10K	J 1/16W	E2V	
R56			RK73GB1J103J	CHIP R	10K	J 1/16W	KP1E1	
R56			RK73GB1J103J	CHIP R	10K	J 1/16W	Y1M1X1	
R57			RK73GB1J151J	CHIP R	150	J 1/16W	K1P2	
⚠ R58			RK73FB2A100J	CHIP R	10	J 1/10W	K1P2	
R61			RK73GB1J750J	CHIP R	75	J 1/16W	K1P2	
R62			RK73GB1J751J	CHIP R	750	J 1/16W	K1P2	
R63			RK73GB1J104J	CHIP R	100K	J 1/16W	K1P2	
R64			RK73GB1J184J	CHIP R	180K	J 1/16W	K1P2	
R65			RK73GB1J470J	CHIP R	47	J 1/16W	K1P2	
R66			RK73GB1J103J	CHIP R	10K	J 1/16W	E2V	
R66			RK73GB1J103J	CHIP R	10K	J 1/16W	KP1E1	
R66			RK73GB1J103J	CHIP R	10K	J 1/16W	Y1M1X1	
R67			RK73GB1J151J	CHIP R	150	J 1/16W	K1P2	
⚠ R71			RK73FB2A100J	CHIP R	10	J 1/10W	K1P2	
R72			RK73GB1J100J	CHIP R	10	J 1/16W	K1P2	
R73			RK73GB1J221J	CHIP R	220	J 1/16W	K1P2	
R74 ,75			RK73GB1J750J	CHIP R	75	J 1/16W	K1P2	
⚠ R76			RK73FB2A100J	CHIP R	10	J 1/10W		
R77			RK73GB1J101J	CHIP R	100	J 1/16W		

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R79			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R80			RK73GB1J103J	CHIP R	10K	J	1/16W		
⚠ R101			RK73FB2A100J	CHIP R	10	J	1/10W		
R102			RK73GB1J101J	CHIP R	100	J	1/16W		
R103,104			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R105			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R106			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R107			RK73GB1J183J	CHIP R	18K	J	1/16W		
R108			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R110			RK73GB1J103J	CHIP R	10K	J	1/16W		
R111			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R112			RK73GB1J103J	CHIP R	10K	J	1/16W		
R113-117			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R118			RK73GB1J471J	CHIP R	470	J	1/16W		
R119			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R120			RK73GB1J103J	CHIP R	10K	J	1/16W		
R121			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R122			RK73GB1J151J	CHIP R	150	J	1/16W		
R123			RK73GB1J101J	CHIP R	100	J	1/16W		
R124			RK73GB1J151J	CHIP R	150	J	1/16W		
R125			RK73GB1J101J	CHIP R	100	J	1/16W		
R126			RK73FB2A2R2J	CHIP R	2.2	J	1/10W		
R127			RK73GB1J103J	CHIP R	10K	J	1/16W		
R201			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R202			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R203-206			RK73GB1J473J	CHIP R	47K	J	1/16W		
R207			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R208,209			RK73GB1J103J	CHIP R	10K	J	1/16W		
R210			RK73GB1J101J	CHIP R	100	J	1/16W		
R211			RK73GB1J221J	CHIP R	220	J	1/16W		
R221,222			RK73GB1J273J	CHIP R	27K	J	1/16W		
R223,224			RK73GB1J123J	CHIP R	12K	J	1/16W		
R225,226			RK73GB1J561J	CHIP R	560	J	1/16W		
R227-230			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R233-236			RK73GB1J471J	CHIP R	470	J	1/16W		
⚠ R301			RK73FB2A100J	CHIP R	10	J	1/10W		
R302-304			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R305			RK73FB2A100J	CHIP R	10	J	1/10W		
⚠ R306			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R307			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R311-314			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R315-318			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R319-322			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R323,324			RK73GB1J100J	CHIP R	10	J	1/16W		
R325-328			RK73GB1J681J	CHIP R	680	J	1/16W		
R329,330			RK73GB1J471J	CHIP R	470	J	1/16W		
R331,332			RK73GB1J121J	CHIP R	120	J	1/16W		
R333,334			RK73GB1J100J	CHIP R	10	J	1/16W		
R335,336			RK73GB1J1R0J	CHIP R	1	J	1/16W		
⚠ R351			RK73FB2A100J	CHIP R	10	J	1/10W		
R352-354			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R355			RK73FB2A100J	CHIP R	10	J	1/10W		
⚠ R356			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R357			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R361-368			RK73GB1J102J	CHIP R	1.0K	J	1/16W		

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R369-372			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R373,374			RK73GB1J100J	CHIP R	10	J	1/16W		
R375-378			RK73GB1J511J	CHIP R	510	J	1/16W		
R379,380			RK73GB1J471J	CHIP R	470	J	1/16W		
R381,382			RK73GB1J121J	CHIP R	120	J	1/16W		
R383,384			RK73GB1J100J	CHIP R	10	J	1/16W		
R385,386			RK73GB1J1R0J	CHIP R	1	J	1/16W		
⚠ R401			RK73FB2A100J	CHIP R	10	J	1/10W		
R402-404			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
⚠ R405			RK73FB2A100J	CHIP R	10	J	1/10W		
⚠ R406			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R407			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R411,412			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R413,414			RK73GB1J242J	CHIP R	2.4K	J	1/16W		
R415,416			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R417,418			RK73GB1J122J	CHIP R	1.2K	J	1/16W		
R419			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R420			RK73GB1J273J	CHIP R	27K	J	1/16W		
R421			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R422			RK73GB1J273J	CHIP R	27K	J	1/16W		
R423,424			RK73GB1J100J	CHIP R	10	J	1/16W		
R425			RK73GB1J681J	CHIP R	680	J	1/16W		
R426			RK73GB1J123J	CHIP R	12K	J	1/16W		
R427			RK73GB1J681J	CHIP R	680	J	1/16W		
R428			RK73GB1J123J	CHIP R	12K	J	1/16W		
R429			RK73GB1J471J	CHIP R	470	J	1/16W		
R430			RK73GB1J183J	CHIP R	18K	J	1/16W		
R431			RK73GB1J121J	CHIP R	120	J	1/16W		
R432			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R433,434			RK73GB1J100J	CHIP R	10	J	1/16W		
R435,436			RK73GB1J1R0J	CHIP R	1	J	1/16W		
⚠ R451			RK73FB2A100J	CHIP R	10	J	1/10W		
R452-454			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R455			RK73FB2A100J	CHIP R	10	J	1/10W		
⚠ R456			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R457			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R461-468			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R469-472			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R473,474			RK73GB1J100J	CHIP R	10	J	1/16W		
R475-478			RK73GB1J511J	CHIP R	510	J	1/16W		
R479,480			RK73GB1J471J	CHIP R	470	J	1/16W		
R481,482			RK73GB1J121J	CHIP R	120	J	1/16W		
R483,484			RK73GB1J100J	CHIP R	10	J	1/16W		
R485,486			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R550			RK73GB1J101J	CHIP R	100	J	1/16W		
R601			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R602-605			RK73GB1J103J	CHIP R	10K	J	1/16W		
R606,607			RK73GB1J470J	CHIP R	47	J	1/16W		
R608			RK73GB1J103J	CHIP R	10K	J	1/16W		
R609			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R610,611			RK73GB1J470J	CHIP R	47	J	1/16W		
R612-615			RK73GB1J103J	CHIP R	10K	J	1/16W		
R616-618			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R619-621			RK73GB1J103J	CHIP R	10K	J	1/16W		
R622			RK73FB2A1R0J	CHIP R	1	J	1/10W		

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R623			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R624			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R625			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R626			RK73GB1J103J	CHIP R	10K	J 1/16W		
R627,628			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R629			RK73GB1J103J	CHIP R	10K	J 1/16W		
R630-639			RK73GB1J101J	CHIP R	100	J 1/16W		
R640-648			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R649-652			RK73GB1J101J	CHIP R	100	J 1/16W		
R653			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R654,655			RK73GB1J103J	CHIP R	10K	J 1/16W		
R656			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R657			RK73GB1J103J	CHIP R	10K	J 1/16W		
R658			RK73GB1J101J	CHIP R	100	J 1/16W		
R659-664			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R665-667			RK73GB1J101J	CHIP R	100	J 1/16W		
R668			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R669-671			RK73GB1J101J	CHIP R	100	J 1/16W		
R672			RK73GB1J103J	CHIP R	10K	J 1/16W		
R673			RK73GB1J101J	CHIP R	100	J 1/16W		
⚠ R674			RK73FB2A100J	CHIP R	10	J 1/10W		
R675			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R701-708			RK73GB1J101J	CHIP R	100	J 1/16W		
R709,710			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R711-719			RK73GB1J101J	CHIP R	100	J 1/16W		
R720			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R721-723			RK73GB1J101J	CHIP R	100	J 1/16W		
R724-727			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R728-731			RK73GB1J101J	CHIP R	100	J 1/16W		
R732-734			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R801-854			RK73GB1J473J	CHIP R	47K	J 1/16W		
R855			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R856			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R857			RK73GB1J183J	CHIP R	18K	J 1/16W		
R858			RK73GB1J123J	CHIP R	12K	J 1/16W		
R859			RK73GB1J183J	CHIP R	18K	J 1/16W		
R860			RK73GB1J473J	CHIP R	47K	J 1/16W		
R861			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R862-864			RK73GB1J473J	CHIP R	47K	J 1/16W		
R865,866			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R867			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R868,869			RK73GB1J473J	CHIP R	47K	J 1/16W		
R871-875			RK73GB1J471J	CHIP R	470	J 1/16W		
R876			RK73GB1J512J	CHIP R	5.1K	J 1/16W		
R877-895			RK73GB1J471J	CHIP R	470	J 1/16W		
R896-900			RK73GB1J221J	CHIP R	220	J 1/16W		
R901-905			RK73GB1J471J	CHIP R	470	J 1/16W		
R911-915			RK73GB1J473J	CHIP R	47K	J 1/16W		
⚠ R951-954			RK73FB2A181J	CHIP R	180	J 1/10W		
⚠ R955-960			RK73FB2A1R0J	CHIP R	1	J 1/10W		
R961			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
⚠ R962-967			RK73FB2A1R0J	CHIP R	1	J 1/10W		
⚠ R969-972			RK73FB2A1R0J	CHIP R	1	J 1/10W		
⚠ R973-976			RK73FB2A390J	CHIP R	39	J 1/10W		
R999			RK73GB1J1R0J	CHIP R	1	J 1/16W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
D3 -6			DA204U	DIODE				
D3 -6			1SS302	DIODE				
IC1			TC74HCU04AF	IC(HEX INVERTER SMD)			K1P2	
IC2			TC74HCU04AF	IC(HEX INVERTER SMD)				
IC3 ,4			TC74HCU04AF	IC(HEX INVERTER SMD)			K1P2	
IC5			TC74HC151AF	MOS-IC				
IC6		✻	AK4112BVF	MOS-IC				
IC7		✻	AK5383VF	MOS-IC				
IC8 ,9			NJM4565MD	IC(OP AMP X2)				
IC11			AK4393-VF	MOS-IC				
IC11		✻	AK4393VF	MOS-IC				
IC12,13			NJM4565MD	IC(OP AMP X2)				
IC14			AK4393-VF	MOS-IC				
IC14		✻	AK4393VF	MOS-IC				
IC15,16			NJM4565MD	IC(OP AMP X2)				
IC17			AK4393-VF	MOS-IC				
IC17		✻	AK4393VF	MOS-IC				
IC18,19			NJM4565MD	IC(OP AMP X2)				
IC20			AK4393-VF	MOS-IC				
IC20		✻	AK4393VF	MOS-IC				
IC21,22			NJM4565MD	IC(OP AMP X2)				
IC31		✻	ADSST-A-3525	MOS-IC				
IC32		✻	49BV008A1ALA	MOS-IC				
IC33,34			HY57V16160DTC	MEMORY IC				
IC35			TC7S04F	IC(2CH NAND GATE)				
IC36,37			TC7SHU04FU	MOS-IC				
IC38			TC74HC08AF	MOS-IC				
IC39,40		✻	TC74LVX573F	MOS-IC				
IC41			TC7SH32F	MOS-IC				
IC42			TC7SH02F	MOS-IC				
IC43		✻	UPD784224K507	MI-COM IC				
IC44			TC74VHC125F	MOS-IC				
IC45			TC7WH34FK	MOS-IC				
⚠ IC51			UPC29L33T	ANALOGUE IC				
⚠ IC52		✻	PQ3DZ13	ANALOGUE IC				
⚠ IC53,54		✻	UPC29M05T	ANALOGUE IC				
CONTROL UNIT (X11-389/390X-XX)								
C1 -14			CC73GCH1H221J	CHIP C	220PF	J		
C45 -48			CC73GCH1H101J	CHIP C	100PF	J		
C49 ,50			CE04KW1H470M	ELECTRO	47UF	50WV		
C53 ,54			CE04KW1H100M	ELECTRO	10UF	50WV		
C55 ,56			CC73GCH1H221J	CHIP C	220PF	J		
C57 ,58			CE04KW1A101M	ELECTRO	100UF	10WV		
C61 ,62			CQ93FMG1H123J	MYLAR	0.012UF	J		
C63 ,64			CQ93FMG1H332J	MYLAR	3300PF	J		
C65 ,66			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C67 ,68			CC73GCH1H101J	CHIP C	100PF	J		
C69 ,70			CC73GCH1H181J	CHIP C	180PF	J		
C71 -78			CC73GCH1H101J	CHIP C	100PF	J		
C81 -84			CC73GCH1H101J	CHIP C	100PF	J		
C85 ,86			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C87 -90			CC73GCH1H101J	CHIP C	100PF	J		
C91 ,92			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C93 ,94			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		

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C95 -100			CC73GCH1H101J	CHIP C	100PF	J		
C101,102			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C103,104			CC73GCH1H101J	CHIP C	100PF	J		
C105-107			CC73GCH1H102J	CHIP C	1000PF	J		
C108			CE04KW1H220M	ELECTRO	22UF	50WV		
C111,112			CC73GCH1H101J	CHIP C	100PF	J		
C113,114			CC73GCH1H561J	CHIP C	560PF	J		
C115,116			CC73GCH1H101J	CHIP C	100PF	J		
C117-120			CK73FB1C104K	CHIP C	0.10UF	K		
C121,122			CC73GCH1H101J	CHIP C	100PF	J		
C123,124			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C125,126			CC45FSL1H820J	CERAMIC	82PF	J		
C127,128			CE04KW1H220M	ELECTRO	22UF	50WV		
C129,130			CC45FSL1H330J	CERAMIC	33PF	J		
C131,132			CC73GCH1H101J	CHIP C	100PF	J		
C133			CE04KW1H100M	ELECTRO	10UF	50WV		
C135			CC73GCH1H101J	CHIP C	100PF	J		
C137			CC45FSL1H020C	CERAMIC	2.0PF	C		
C138			CC45FSL1H030C	CERAMIC	3.0PF	C		
C139,140			CC73GCH1H101J	CHIP C	100PF	J		
C141,142			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C143,144			CC73GCH1H101J	CHIP C	100PF	J		
C145,146			CC73GCH1H561J	CHIP C	560PF	J		
C147-150			CK73FB1C104K	CHIP C	0.10UF	K		
C151,152			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C153,154			CC45FSL1H470J	CERAMIC	47PF	J		
C155,156			CE04KW1H220M	ELECTRO	22UF	50WV		
C157,158			CC45FSL1H330J	CERAMIC	33PF	J		
C159-163			CC73GCH1H101J	CHIP C	100PF	J		
C165			CC45FSL1H020C	CERAMIC	2.0PF	C		
C166			CC45FSL1H030C	CERAMIC	3.0PF	C		
C167			CE04KW1H100M	ELECTRO	10UF	50WV		
C169,170			CC73GCH1H101J	CHIP C	100PF	J		
C181,182			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C183,184			CC73GCH1H101J	CHIP C	100PF	J		
C191,192			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C193,194			CC45FSL1H470J	CERAMIC	47PF	J		
C195,196			CE04KW1H220M	ELECTRO	22UF	50WV		
C197			CC45FSL1H330J	CERAMIC	33PF	J		
C198			CC45FSL1H101J	CERAMIC	100PF	J		
C199-204			CC73GCH1H101J	CHIP C	100PF	J		
C205,206			CC45FSL1H020C	CERAMIC	2.0PF	C		
C207			CE04KW1H100M	ELECTRO	10UF	50WV		
C209,210			CC73GCH1H101J	CHIP C	100PF	J		
C211,212			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C213-216			CC73GCH1H101J	CHIP C	100PF	J		
C221,222			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C223,224			CC45FSL1H470J	CERAMIC	47PF	J		
C225,226			CE04KW1H220M	ELECTRO	22UF	50WV		
C227,228			CC45FSL1H330J	CERAMIC	33PF	J		
C229-233			CC73GCH1H101J	CHIP C	100PF	J		
C234			CE04KW1H100M	ELECTRO	10UF	50WV		
C235			CC45FSL1H020C	CERAMIC	2.0PF	C		
C236			CC45FSL1H030C	CERAMIC	3.0PF	C		
C301-310			CC73GCH1H221J	CHIP C	220PF	J		

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C311,312			CC73GCH1H221J	CHIP C	220PF	J	K1P2	
C313-318			CC73GCH1H221J	CHIP C	220PF	J		
C351-356			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C357-376			CC73GCH1H101J	CHIP C	100PF	J		
C377,378			CK73GB1H103K	CHIP C	0.010UF	K		
C381,382			CE04KW1H220M	ELECTRO	22UF	50WV		
C383,384			CE04KW1H100M	ELECTRO	10UF	50WV		
C401,402			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C403-410			CC73GCH1H101J	CHIP C	100PF	J		
C411,412			CE04KW1H220M	ELECTRO	22UF	50WV		
C413-415			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C421			CE04KW1H100M	ELECTRO	10UF	50WV		
C422,423			CC73GCH1H101J	CHIP C	100PF	J		
C425			CE04KW1H220M	ELECTRO	22UF	50WV		
C427			CC73GCH1H101J	CHIP C	100PF	J		
C431-440			CC73GCH1H101J	CHIP C	100PF	J		
C441,442			CE04KW1H220M	ELECTRO	22UF	50WV		
C443,444			CC73GCH1H101J	CHIP C	100PF	J		
C451,452			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C453,454			CC73GCH1H101J	CHIP C	100PF	J		
C455,456			CE04KW1H220M	ELECTRO	22UF	50WV		
C457-462			CC73GCH1H101J	CHIP C	100PF	J		
C463,464			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C465,466			CC73GCH1H101J	CHIP C	100PF	J		
C467			CE04KW1H100M	ELECTRO	10UF	50WV		
C469,470			CC73GCH1H101J	CHIP C	100PF	J		
C471,472			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C473,474			CC73GCH1H561J	CHIP C	560PF	J		
C475,476			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C477,478			CC73GCH1H270J	CHIP C	27PF	J		
C479,480			CK73GB1H562K	CHIP C	5600PF	K		
C481,482			CK73FB1H183K	CHIP C	0.018UF	K		
C483,484			CE04KW1H100M	ELECTRO	10UF	50WV		
C485,486			CK73FB1H153K	CHIP C	0.015UF	K		
C487,488			CK73FB1H683K	CHIP C	0.068UF	K		
C489,490			CC73GCH1H821J	CHIP C	820PF	J		
C491-495			CC73GCH1H101J	CHIP C	100PF	J		
C501-506			CC73GCH1H101J	CHIP C	100PF	J		
C509,510			CC73GCH1H101J	CHIP C	100PF	J		
C513-518			CC73GCH1H101J	CHIP C	100PF	J		
C549,550			CC73GCH1H101J	CHIP C	100PF	J		
C551-554			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C555,556			CC45FSL1H101J	CERAMIC	100PF	J		
C557,558			CE04KW1H220M	ELECTRO	22UF	50WV		
C559,560			CC45FSL1H330J	CERAMIC	33PF	J		
C561,562			CC73GCH1H101J	CHIP C	100PF	J		
C563			CC45FSL1H020C	CERAMIC	2.0PF	C		
C564			CC45FSL1H030C	CERAMIC	3.0PF	C		
C565,566			CK73GB1H103K	CHIP C	0.010UF	K		
C567			CC73GCH1H101J	CHIP C	100PF	J		
C568			CE04KW1H100M	ELECTRO	10UF	50WV		
CN1			E40-8319-05	FLAT CABLE CONNECTOR				
CN2			E40-8250-05	FLAT CABLE CONNECTOR				
CN3			E40-8354-05	FLAT CABLE CONNECTOR				

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CN11			E40-8318-05	FLAT CABLE CONNECTOR					
CN12,13		✻	E40-9835-05	SOCKET FOR PIN ASSY					
J1 ,2			E63-1112-05	PIN JACK				E2V	
J1 ,2			E63-1112-05	PIN JACK				KP1E1	
J1 ,2			E63-1112-05	PIN JACK				Y1M1X1	
J1 ,2			E63-1113-05	PIN JACK				K1P2	
J11			E63-1111-05	PIN JACK				K1P2	
J11			E63-1164-05	PIN JACK				E2V	
J11			E63-1164-05	PIN JACK				KP1E1	
J11			E63-1164-05	PIN JACK				Y1M1X1	
J12			E63-1111-05	PIN JACK				K1P2	
J13			E63-1114-05	PIN JACK				E2V	
J13			E63-1114-05	PIN JACK				KP1E1	
J13			E63-1114-05	PIN JACK				Y1M1X1	
J13			E63-1115-05	PIN JACK				K1P2	
J14			E63-1163-05	PIN JACK				E2V	
J14			E63-1163-05	PIN JACK				KP1E1	
J14			E63-1163-05	PIN JACK				Y1M1X1	
R1 ,2			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R3 ,4			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R5 -10			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R11 ,12			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R13 ,14			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R15 -28			RK73GB1J474J	CHIP R	470K	J	1/16W		
R45 -48			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R51 ,52			RK73GB1J224J	CHIP R	220K	J	1/16W		
R53 ,54			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R55 ,56			RK73GB1J303J	CHIP R	30K	J	1/16W		
R57 ,58			RK73GB1J361J	CHIP R	360	J	1/16W		
R59 ,60			RK73GB1J101J	CHIP R	100	J	1/16W		
R61 ,62			RK73GB1J274J	CHIP R	270K	J	1/16W		
R63 ,64			RK73GB1J223J	CHIP R	22K	J	1/16W		
R65 ,66			RK73GB1J473J	CHIP R	47K	J	1/16W		
R67 ,68			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R72			RK73GB1J103J	CHIP R	10K	J	1/16W		
R75 ,76			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R77 ,78			RK73GB1J100J	CHIP R	10	J	1/16W		
R80			RK73GB1J681J	CHIP R	680	J	1/16W		
R81 ,82			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R83 ,84			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R85 ,86			RK73GB1J101J	CHIP R	100	J	1/16W		
R87 ,88			RK73GB1J224J	CHIP R	220K	J	1/16W		
R89 ,90			RK73GB1J471J	CHIP R	470	J	1/16W		
R91 ,92			RK73GB1J474J	CHIP R	470K	J	1/16W		
R93 ,94			RK73GB1J471J	CHIP R	470	J	1/16W		
R95 ,96			RK73GB1J224J	CHIP R	220K	J	1/16W		
R97 ,98			RK73GB1J101J	CHIP R	100	J	1/16W		
R99 ,100			RK73GB1J470J	CHIP R	47	J	1/16W		
R111,112			RK73GB1J104J	CHIP R	100K	J	1/16W		
R113,114			RK73GB1J224J	CHIP R	220K	J	1/16W		
R115,116			RK73GB1J822J	CHIP R	8.2K	J	1/16W		
R117,118			RK73GB1J470J	CHIP R	47	J	1/16W		
R119,120			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R121,122			RK73GB1J124J	CHIP R	120K	J	1/16W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R123,124			RK73GB1J302J	CHIP R	3.0K	J	1/16W		
R125,126			RK73GB1J133J	CHIP R	13K	J	1/16W		
R127,128			RK73GB1J100J	CHIP R	10	J	1/16W		
R129			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R130			RK73GB1J103J	CHIP R	10K	J	1/16W		
R131,132			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R133,134			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R141,142			RK73GB1J104J	CHIP R	100K	J	1/16W		
R143,144			RK73GB1J224J	CHIP R	220K	J	1/16W		
R145,146			RK73GB1J822J	CHIP R	8.2K	J	1/16W		
R147,148			RK73GB1J470J	CHIP R	47	J	1/16W		
R149,150			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R151,152			RK73GB1J124J	CHIP R	120K	J	1/16W		
R153,154			RK73GB1J103J	CHIP R	10K	J	1/16W		
R155,156			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R157,158			RK73GB1J163J	CHIP R	16K	J	1/16W		
R159,160			RK73GB1J133J	CHIP R	13K	J	1/16W		
R161,162			RK73GB1J470J	CHIP R	47	J	1/16W		
R163,164			RK73GB1J100J	CHIP R	10	J	1/16W		
R165			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R166			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R167,168			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R169			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R171,172			RK73GB1J100J	CHIP R	10	J	1/16W		
R173,174			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R181,182			RK73GB1J104J	CHIP R	100K	J	1/16W		
R183,184			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R187,188			RK73GB1J470J	CHIP R	47	J	1/16W		
R189,190			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R191,192			RK73GB1J124J	CHIP R	120K	J	1/16W		
R193,194			RK73GB1J103J	CHIP R	10K	J	1/16W		
R195			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R196			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R197			RK73GB1J163J	CHIP R	16K	J	1/16W		
R198			RK73GB1J153J	CHIP R	15K	J	1/16W		
R199			RK73GB1J133J	CHIP R	13K	J	1/16W		
R200			RK73GB1J333J	CHIP R	33K	J	1/16W		
R201,202			RK73GB1J100J	CHIP R	10	J	1/16W		
R203			RK73GB1J470J	CHIP R	47	J	1/16W		
R204			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R205,206			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R211,212			RK73GB1J104J	CHIP R	100K	J	1/16W		
R213,214			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R217,218			RK73GB1J470J	CHIP R	47	J	1/16W		
R219,220			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R221,222			RK73GB1J124J	CHIP R	120K	J	1/16W		
R223,224			RK73GB1J103J	CHIP R	10K	J	1/16W		
R225,226			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R227,228			RK73GB1J163J	CHIP R	16K	J	1/16W		
R229,230			RK73GB1J133J	CHIP R	13K	J	1/16W		
R231,232			RK73GB1J470J	CHIP R	47	J	1/16W		
R233,234			RK73GB1J100J	CHIP R	10	J	1/16W		
R235			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R237,238			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R301,302			RK73GB1J222J	CHIP R	2.2K	J	1/16W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R303,304			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R305,306			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R307-310			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R311,312			RK73GB1J102J	CHIP R	1.0K	J	1/16W	K1P2	
R313-318			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R319-328			RK73GB1J474J	CHIP R	470K	J	1/16W		
R319,330			RK73GB1J474J	CHIP R	470K	J	1/16W	K1P2	
R331-336			RK73GB1J474J	CHIP R	470K	J	1/16W		
R351-356			RK73GB1J471J	CHIP R	470	J	1/16W		
R357-362			RK73GB1J224J	CHIP R	220K	J	1/16W		
R363-366			RK73GB1J101J	CHIP R	100	J	1/16W		
R367			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R368			RK73GB1J101J	CHIP R	100	J	1/16W		
R369-372			RK73GB1J470J	CHIP R	47	J	1/16W		
R373			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R381,382			RK73GB1J470J	CHIP R	47	J	1/16W		
R383,384			RK73GB1J224J	CHIP R	220K	J	1/16W		
R385-390			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R391,392			RK73GB1J622J	CHIP R	6.2K	J	1/16W		
R401,402			RK73GB1J224J	CHIP R	220K	J	1/16W		
R403,404			RK73GB1J101J	CHIP R	100	J	1/16W		
R421			RK73GB1J224J	CHIP R	220K	J	1/16W		
R422			RK73GB1J101J	CHIP R	100	J	1/16W		
R423,424			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R425			RK73GB1J470J	CHIP R	47	J	1/16W		
R427,428			RK73GB1J104J	CHIP R	100K	J	1/16W		
R429,430			RK73GB1J100J	CHIP R	10	J	1/16W		
R431,432			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R433,434			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R435-442			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R443,444			RK73GB1J104J	CHIP R	100K	J	1/16W		
R451			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R452			RK73GB1J103J	CHIP R	10K	J	1/16W		
R453			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R454			RK73GB1J103J	CHIP R	10K	J	1/16W		
R455,456			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R457,458			RK73GB1J224J	CHIP R	220K	J	1/16W		
R459,460			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R461,462			RK73GB1J224J	CHIP R	220K	J	1/16W		
R463,464			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R465,466			RK73GB1J470J	CHIP R	47	J	1/16W		
R467-469			RK73GB1J104J	CHIP R	100K	J	1/16W		
R471,472			RK73GB1J822J	CHIP R	8.2K	J	1/16W		
R473,474			RK73GB1J202J	CHIP R	2.0K	J	1/16W		
R475,476			RK73GB1J124J	CHIP R	120K	J	1/16W		
R477,478			RK73GB1J433J	CHIP R	43K	J	1/16W		
R479,480			RK73GB1J184J	CHIP R	180K	J	1/16W		
R481,482			RK73GB1J394J	CHIP R	390K	J	1/16W		
R483-486			RK73GB1J392J	CHIP R	3.9K	J	1/16W		
R487,488			RK73GB1J821J	CHIP R	820	J	1/16W		
R489,490			RK73GB1J163J	CHIP R	16K	J	1/16W		
R491,492			RK73GB1J684J	CHIP R	680K	J	1/16W		
R493,494			RK73GB1J223J	CHIP R	22K	J	1/16W		
R495,496			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R497			RK73GB1J103J	CHIP R	10K	J	1/16W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R498,499			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R500,501			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R502			RK73GB1J103J	CHIP R	10K	J	1/16W		
R503			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R504			RK73GB1J103J	CHIP R	10K	J	1/16W		
R505,506			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R507-520			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R549-552			RK73GB1J104J	CHIP R	100K	J	1/16W		
R553,554			RK73GB1J103J	CHIP R	10K	J	1/16W		
R555,556			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R557,558			RK73GB1J163J	CHIP R	16K	J	1/16W		
R559,560			RK73GB1J133J	CHIP R	13K	J	1/16W		
R561,562			RK73GB1J470J	CHIP R	47	J	1/16W		
R563			RK73GB1J103J	CHIP R	10K	J	1/16W		
R564			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R565,566			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R567,568			RK73GB1J100J	CHIP R	10	J	1/16W		
W201-204			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)					
W205,206			R92-0679-05	CHIP R	0 OHM				
W207-215			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)					
W501-539			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)					
D3 ,4			MA111	DIODE					
D5 -8			DA204U	DIODE					
D5 -8			1SS302	DIODE					
IC1			NJM4580ED	ANALOGUE IC					
IC2			NJU7312AM	MOS-IC					
IC3			NJU7313AM	ANALOGUE IC					
IC4 ,5			NJM4565M	ANALOGUE IC					
IC6		✻	TC9459N	MOS-IC					
IC7			NJM4565M	ANALOGUE IC					
IC8		✻	TC9459N	MOS-IC					
IC9			NJM4565MD	IC(OP AMP X2)					
IC10		✻	TC9459N	MOS-IC					
IC11			NJM4565MD	IC(OP AMP X2)					
IC12		✻	TC9459N	MOS-IC					
IC13			NJM4565MD	IC(OP AMP X2)					
IC21			NJU7312AM	MOS-IC					
IC22			NJU7313AM	ANALOGUE IC					
IC23			NJU7311AM	MOS-IC					
IC24			NJU7313AM	ANALOGUE IC					
IC25-28			NJM4565MD	IC(OP AMP X2)					
IC29-33			NJM4565M	ANALOGUE IC					
IC34			TC9184AP	MOS-IC					
IC35		✻	TC9459N	MOS-IC					
IC36			NJM4565M	ANALOGUE IC					
Q1 -8			2SC2878(B)	TRANSISTOR					
Q11 ,12			2SC2878(B)	TRANSISTOR					
Q13			2SA1576A(R,S)	TRANSISTOR					
Q13			2SA1586(Y,GR)	TRANSISTOR					
Q14			DTC124EUA	DIGITAL TRANSISTOR					
Q14			UN5212	DIGITAL TRANSISTOR					
Q15 -18			2SC2878(B)	TRANSISTOR					

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
SUB-CIRCUIT UNIT (X13-784/785X-XX)								
C4			C90-1826-05	BACKUP-C	0.047F	5.5WV		
C5			CE04KW1A101M	ELECTRO	100UF	10WV		
C6			CK73GF1E104Z	CHIP C	0.10UF	Z		
C7			CK73GB1H103K	CHIP C	0.010UF	K		
C8			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C9 ,10			CK73GB1H103K	CHIP C	0.010UF	K		
C11			CE04KW1E470M	ELECTRO	47UF	25WV		
C12			CE04KW1A101M	ELECTRO	100UF	10WV		
C13 ,14			CK73GF1E104Z	CHIP C	0.10UF	Z		
C20			CK73GF1E104Z	CHIP C	0.10UF	Z		
C21 ,22			CC73GCH1H101J	CHIP C	100PF	J		
C23 ,24			CK73GB1H103K	CHIP C	0.010UF	K		
C41			CE04KW1E102M	ELECTRO	1000UF	25WV		
C42			CE04KW1H100M	ELECTRO	10UF	50WV		
C45 -50			CE04KW1H100M	ELECTRO	10UF	50WV		
C51			CE04KW1E221M	ELECTRO	220UF	25WV		
C52			CE04KW1E101M	ELECTRO	100UF	25WV		
C98 ,99			CE04KW1H100M	ELECTRO	10UF	50WV		
C101,102			CC73GCH1H560J	CHIP C	56PF	J		
C110			CK73GB1H472K	CHIP C	4700PF	K		
C201			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C202			CK73GB1H472K	CHIP C	4700PF	K		
C229			CC73GCH1H102J	CHIP C	1000PF	J		
C231			CE04KW1H100M	ELECTRO	10UF	50WV	E1E2	
C232			CC73GCH1H331J	CHIP C	330PF	J	E1E2	
C233			CC73GCH1H561J	CHIP C	560PF	J	E1E2	
C234,235			CC73GCH1H220J	CHIP C	22PF	J	E1E2	
C236			CE04KW1H100M	ELECTRO	10UF	50WV	E1E2	
C237			CK73GB1H472K	CHIP C	4700PF	K	E1E2	
C300			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C301,302			CE04KW1V102M	ELECTRO	1000UF	35WV		
C307			CC73GCH1H102J	CHIP C	1000PF	J		
C308			CC73GCH1H101J	CHIP C	100PF	J		
C309			CE04KW1H100M	ELECTRO	10UF	50WV		
C310			CE04KW1E221M	ELECTRO	220UF	25WV		
C311,312			CE04KW1E470M	ELECTRO	47UF	25WV		
C320			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C321			CE04KW1C472M	ELECTRO	4700UF	16WV		
C322			CE04KW1E101M	ELECTRO	100UF	25WV		
C323			CE04KW1A101M	ELECTRO	100UF	10WV		
C328,329			CE04KW1E470M	ELECTRO	47UF	25WV		
C330			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C331			CE04KW1V102M	ELECTRO	1000UF	35WV		
C333,334			CE04KW1E470M	ELECTRO	47UF	25WV		
C410			CE04KW1A101M	ELECTRO	100UF	10WV		
C501-505			CC73GCH1H101J	CHIP C	100PF	J		
C506			CC73GCH1H101J	CHIP C	100PF	J	K1P2	
C507,508			CC73GCH1H101J	CHIP C	100PF	J		
C509,510			CE04KW1A471M	ELECTRO	470UF	10WV		
C511-514			CE04KW1A101M	ELECTRO	100UF	10WV		
C515			CE04KW1A101M	ELECTRO	100UF	10WV	K1P2	
C517			CK73GB1H103K	CHIP C	0.010UF	K		
C518			CE04KW1A101M	ELECTRO	100UF	10WV		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C519			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C521			CE04KW1E470M	ELECTRO	47UF	25WV		
C522			CE04KW1A471M	ELECTRO	470UF	10WV		
C523			CE04KW1A101M	ELECTRO	100UF	10WV		
C524			CE04KW1A101M	ELECTRO	100UF	10WV	K1P2	
C525-527			CE04KW1A101M	ELECTRO	100UF	10WV		
C535,536			CK73GB1H103K	CHIP C	0.010UF	K		
C539			CE04KW1A471M	ELECTRO	470UF	10WV		
C541			CK73GB1H103K	CHIP C	0.010UF	K		
C544			CE04KW1H100M	ELECTRO	10UF	50WV		
C601-610			CC73GCH1H101J	CHIP C	100PF	J		
C611,612			CC73GCH1H101J	CHIP C	100PF	J	K1P2	
C613-616			CC73GCH1H101J	CHIP C	100PF	J		
C617-619			CK73GF1E104Z	CHIP C	0.10UF	Z		
C620			CK73GF1E104Z	CHIP C	0.10UF	Z	K1P2	
C621			CK73GF1E104Z	CHIP C	0.10UF	Z		
C622			CE04KW1A471M	ELECTRO	470UF	10WV		
C623			CK73GF1E104Z	CHIP C	0.10UF	Z		
C624			CE04KW1A101M	ELECTRO	100UF	10WV		
C625			CK73GF1E104Z	CHIP C	0.10UF	Z		
C626			CE04KW1A471M	ELECTRO	470UF	10WV		
C627			CK73GF1E104Z	CHIP C	0.10UF	Z		
C628			CE04KW1A101M	ELECTRO	100UF	10WV		
C629			CK73GF1E104Z	CHIP C	0.10UF	Z		
C630			CE04KW1A101M	ELECTRO	100UF	10WV		
C631			CK73GF1E104Z	CHIP C	0.10UF	Z		
C632			CE04KW1A101M	ELECTRO	100UF	10WV	K1P2	
C633			CK73GF1E104Z	CHIP C	0.10UF	Z	K1P2	
C634			CE04KW1A101M	ELECTRO	100UF	10WV		
C635			CK73GF1E104Z	CHIP C	0.10UF	Z		
C636			CE04KW1A471M	ELECTRO	470UF	10WV		
C637			CK73GF1E104Z	CHIP C	0.10UF	Z		
C638,639			CK73GF1A105Z	CHIP C	1.0UF	Z	K1P2	
C640			CE04KW1A101M	ELECTRO	100UF	10WV	K1P2	
C641			CE04KW1A101M	ELECTRO	100UF	10WV		
C642			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C643			CK73GB1H103K	CHIP C	0.010UF	K		
C644			CK73GF1E104Z	CHIP C	0.10UF	Z		
C645			CE04KW1H100M	ELECTRO	10UF	50WV	K1P2	
C646			CK73GF1H223Z	CHIP C	0.022UF	Z	K1P2	
C647			CK73GB1H103K	CHIP C	0.010UF	K		
C648			CK73GF1E104Z	CHIP C	0.10UF	Z		
C649,650			CE04KW1E470M	ELECTRO	47UF	25WV		
C651,652			CE04KW1A221M	ELECTRO	220UF	10WV	K1P2	
C653			CE04KW1H100M	ELECTRO	10UF	50WV	K1P2	
C654			CK73GB1H182K	CHIP C	1800PF	K	K1P2	
C655			CC73GCH1H102J	CHIP C	1000PF	J	K1P2	
C656			CE04KW1H220M	ELECTRO	22UF	50WV	K1P2	
C657			CE04KW1A221M	ELECTRO	220UF	10WV	K1P2	
C658			CK73GF1A105Z	CHIP C	1.0UF	Z	K1P2	
C659			CK73GB1H103K	CHIP C	0.010UF	K	K1P2	
C670			CK73GF1E104Z	CHIP C	0.10UF	Z		
C671			CE04KW1H100M	ELECTRO	10UF	50WV		
C672			CE04KW1E470M	ELECTRO	47UF	25WV		
C701-709			CC73GCH1H470J	CHIP C	47PF	J	E2V	

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Ref. No	Add-ress	New Parts	Parts No.	Description			Desti-nation	Re-marks
C701-709			CC73GCH1H470J	CHIP C	47PF	J	KP1E1	
C701-709			CC73GCH1H470J	CHIP C	47PF	J	Y1M1X1	
C710-715			CE04KW1A101M	ELECTRO	100UF	10WV	E2V	
C710-715			CE04KW1A101M	ELECTRO	100UF	10WV	KP1E1	
C710-715			CE04KW1A101M	ELECTRO	100UF	10WV	Y1M1X1	
C716-718			CE04KW1A471M	ELECTRO	470UF	10WV	E2V	
C716-718			CE04KW1A471M	ELECTRO	470UF	10WV	KP1E1	
C716-718			CE04KW1A471M	ELECTRO	470UF	10WV	Y1M1X1	
C719-721			CC73GCH1H102J	CHIP C	1000PF	J	E2V	
C719-721			CC73GCH1H102J	CHIP C	1000PF	J	KP1E1	
C719-721			CC73GCH1H102J	CHIP C	1000PF	J	Y1M1X1	
C851			CE04KW1E470M	ELECTRO	47UF	25WV	E2V	
C851			CE04KW1E470M	ELECTRO	47UF	25WV	KP1E1	
C851			CE04KW1E470M	ELECTRO	47UF	25WV	Y1M1X1	
C852			CE04KW1H100M	ELECTRO	10UF	50WV	E2V	
C852			CE04KW1H100M	ELECTRO	10UF	50WV	KP1E1	
C852			CE04KW1H100M	ELECTRO	10UF	50WV	Y1M1X1	
C853,854			CF92FV1H105J	MF-C	1.0UF	J	E2V	
C853,854			CF92FV1H105J	MF-C	1.0UF	J	KP1E1	
C853,854			CF92FV1H105J	MF-C	1.0UF	J	Y1M1X1	
C859			CK73GF1E104Z	CHIP C	0.10UF	Z	E2V	
C859			CK73GF1E104Z	CHIP C	0.10UF	Z	KP1E1	
C859			CK73GF1E104Z	CHIP C	0.10UF	Z	Y1M1X1	
C901-903			CE04KW1H010M	ELECTRO	1.0UF	50WV	KP1K1	
C901-903			CE04KW1H010M	ELECTRO	1.0UF	50WV	P2	
C904			CE04KW1A221M	ELECTRO	220UF	10WV	KP1K1	
C904			CE04KW1A221M	ELECTRO	220UF	10WV	P2	
C905			CE04KW1H010M	ELECTRO	1.0UF	50WV	KP1K1	
C905			CE04KW1H010M	ELECTRO	1.0UF	50WV	P2	
C906-909			CC73GCH1H101J	CHIP C	100PF	J	KP1K1	
C906-909			CC73GCH1H101J	CHIP C	100PF	J	P2	
CN1			E40-3257-05	PIN ASSY				
CN2			E40-3256-05	PIN ASSY				
CN3			E40-4297-05	FLAT CABLE CONNECTOR				
CN4			E40-9849-05	PIN ASSY				
CN5 ,6			E40-9853-05	PIN ASSY				
CN7			E40-9840-05	PIN ASSY				
CN8			E40-9840-05	PIN ASSY			E2V	
CN8			E40-9840-05	PIN ASSY			KP1E1	
CN8			E40-9840-05	PIN ASSY			Y1M1X1	
CN9		✻	E40-9852-05	PIN ASSY				
CN10			E40-9853-05	PIN ASSY				
CN11,12		✻	E40-9852-05	PIN ASSY				
CN13			E40-8258-05	FLAT CABLE CONNECTOR				
CN14			E40-8255-05	FLAT CABLE CONNECTOR				
CN15			E40-9849-05	PIN ASSY			K1P2	
CN16			E40-4296-05	FLAT CABLE CONNECTOR			KP1K1	
CN16			E40-4296-05	FLAT CABLE CONNECTOR			P2	
CN501			E40-9836-05	SOCKET FOR PIN ASSY				
CN601		✻	E40-9835-05	SOCKET FOR PIN ASSY				
CN701			E40-9823-05	SOCKET FOR PIN ASSY			E2V	
CN701			E40-9823-05	SOCKET FOR PIN ASSY			KP1E1	
CN701			E40-9823-05	SOCKET FOR PIN ASSY			Y1M1X1	
J501			E63-1021-05	PIN JACK			E2V	

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J501			E63-1021-05	PIN JACK				KP1E1	
J501			E63-1021-05	PIN JACK				Y1M1X1	
J501			E63-1125-05	PIN JACK				K1P2	
J502			E63-1125-05	PIN JACK				K1P2	
J503			E63-1020-05	PIN JACK				E2V	
J503			E63-1020-05	PIN JACK				KP1E1	
J503			E63-1020-05	PIN JACK				Y1M1X1	
J503			E63-1123-05	PIN JACK				K1P2	
J504			E63-1020-05	PIN JACK				E2V	
J504			E63-1020-05	PIN JACK				KP1E1	
J504			E63-1020-05	PIN JACK				Y1M1X1	
J601			E56-0029-05	CYLINDRICAL RECEPTACLE				E2	
J601			E56-0029-05	CYLINDRICAL RECEPTACLE				KP1E1	
J601			E56-0029-05	CYLINDRICAL RECEPTACLE				Y1M1X1	
J601			E56-0030-05	CYLINDRICAL RECEPTACLE				K1P2	
J602			E56-0030-05	CYLINDRICAL RECEPTACLE				K1P2	
J603			E56-0027-05	CYLINDRICAL RECEPTACLE				E2V	
J603			E56-0027-05	CYLINDRICAL RECEPTACLE				KP1E1	
J603			E56-0027-05	CYLINDRICAL RECEPTACLE				Y1M1X1	
J603			E56-0028-05	CYLINDRICAL RECEPTACLE				K1P2	
J604			E56-0027-05	CYLINDRICAL RECEPTACLE				E2V	
J604			E56-0027-05	CYLINDRICAL RECEPTACLE				KP1E1	
J604			E56-0027-05	CYLINDRICAL RECEPTACLE				Y1M1X1	
J701-703		✻	E63-1175-05	PIN JACK				E2V	
J701-703		✻	E63-1175-05	PIN JACK				KP1E1	
J701-703		✻	E63-1175-05	PIN JACK				Y1M1X1	
J901		✻	E58-0033-05	RECTANGULAR RECEPTACLE				KP1K1	
J901		✻	E58-0033-05	RECTANGULAR RECEPTACLE				P2	
⚠ F5 -7			F06-1022-05	FUSE (SEMKO)	(250V T1AL)			E1Y1M1	
⚠ F5 -7			F06-1022-05	FUSE (SEMKO)	(250V T1AL)			X1E2	
⚠ F5 -7			F50-0067-05	FUSE(5X20)				KP1K1	
⚠ F5 -7			F50-0067-05	FUSE(5X20)				P2	
⚠ F5 -7			F50-0108-05	FUSE(5X20)				V	
⚠ F8			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			E1Y1M1	
⚠ F8			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			X1E2	
⚠ F8			F50-0072-05	FUSE(5X20)				KP1K1	
⚠ F8			F50-0072-05	FUSE(5X20)				P2	
⚠ F8			F50-0111-05	FUSE(5X20)				V	
CN22-29			J13-0075-05	FUSE CLIP					
L1 -9			L92-0140-05	CHIP FERRITE					
L10			L92-0140-05	CHIP FERRITE				Y1M1V	
L11 -13			L92-0140-05	CHIP FERRITE					
L601			L76-0018-05	DELAY LINE				K1P2	
X1			L78-0615-05	RESONATOR	(12.5MHZ)				
X2			L78-0674-05	RESONATOR	(3.64MHZ)				
X3			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)				E1E2	
⚠ R1			RD14NB2E100J	RD	10	J	1/4W		
R2			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
⚠ R3			RD14NB2E2R2J	RD	2.2	J	1/4W		
R4			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R5			RK73GB1J221J	CHIP R	220	J	1/16W		
R6			RK73GB1J104J	CHIP R	100K	J	1/16W		
R7			RK73GB1J102J	CHIP R	1.0K	J	1/16W		

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R8			RK73GB1J103J	CHIP R	10K	J	1/16W		
R9			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R10			RK73GB1J103J	CHIP R	10K	J	1/16W		
R11			RK73GB1J101J	CHIP R	100	J	1/16W		
R12			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R13 ,14			RK73GB1J331J	CHIP R	330	J	1/16W		
R15 -18			RK73GB1J104J	CHIP R	100K	J	1/16W		
R19			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R21 ,22			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R23 ,24			RK73GB1J103J	CHIP R	10K	J	1/16W		
R35			RK73GB1J473J	CHIP R	47K	J	1/16W		
R41 ,42			RK73GB1J103J	CHIP R	10K	J	1/16W		
R51 ,52			RK73GB1J473J	CHIP R	47K	J	1/16W		
R53 ,54			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R56 ,57			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R64			RK73GB1J473J	CHIP R	47K	J	1/16W		
R69			RK73GB1J473J	CHIP R	47K	J	1/16W		
R70 ,71			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R72 ,73			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R74 ,75			RK73GB1J103J	CHIP R	10K	J	1/16W		
R76 ,77			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R76 ,77			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2	
R78 ,79			RK73GB1J104J	CHIP R	100K	J	1/16W		
R80 -87			RK73GB1J473J	CHIP R	47K	J	1/16W		
R88			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R89			RK73GB1J101J	CHIP R	100	J	1/16W		
R90			RK73GB1J104J	CHIP R	100K	J	1/16W		
R91 -96			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R97			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
⚠ R98			RD14NB2E471J	RD	470	J	1/4W	KP1K1	
⚠ R98			RD14NB2E471J	RD	470	J	1/4W	P2	
R99			RK73GB1J101J	CHIP R	100	J	1/16W		
R100			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R100			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2	
R101			RK73GB1J103J	CHIP R	10K	J	1/16W	K1P2Y1	
R101			RK73GB1J103J	CHIP R	10K	J	1/16W	M1X1V	
R101			RK73GB1J332J	CHIP R	3.3K	J	1/16W	E1E2	
R102			RK73GB1J103J	CHIP R	10K	J	1/16W	KP1	
R102			RK73GB1J182J	CHIP R	1.8K	J	1/16W	K1P2	
R102			RK73GB1J822J	CHIP R	8.2K	J	1/16W	E1E2	
R103			RK73GB1J103J	CHIP R	10K	J	1/16W	V	
R103			RK73GB1J103J	CHIP R	10K	J	1/16W	Y1M1X1	
R103			RK73GB1J222J	CHIP R	2.2K	J	1/16W	E1E2	
R103			RK73GB1J622J	CHIP R	6.2K	J	1/16W	KP1K1	
R103			RK73GB1J622J	CHIP R	6.2K	J	1/16W	P2	
R104			RK73GB1J472J	CHIP R	4.7K	J	1/16W	KP1K1	
R104			RK73GB1J472J	CHIP R	4.7K	J	1/16W	P2	
R104			RK73GB1J822J	CHIP R	8.2K	J	1/16W	E1E2	
R105			RK73GB1J473J	CHIP R	47K	J	1/16W	Y1M1V	
R107			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R108			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R109			RD14NB2E101J	RD	100	J	1/4W		
R110			RD14NB2E560J	RD	56	J	1/4W		
⚠ R111,112			RD14NB2E4R7J	RD	4.7	J	1/4W		
R113			RK73GB1J332J	CHIP R	3.3K	J	1/16W		

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R114			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R115			RD14NB2E122J	RD	1.2K	J	1/4W		
R116			RK73GB1J683J	CHIP R	68K	J	1/16W		
R117			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R118			RK73GB1J683J	CHIP R	68K	J	1/16W		
R119			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R120			RK73GB1J683J	CHIP R	68K	J	1/16W		
R121			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R122			RK73GB1J683J	CHIP R	68K	J	1/16W		
R123			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R124			RK73GB1J683J	CHIP R	68K	J	1/16W		
R125			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R126			RK73GB1J103J	CHIP R	10K	J	1/16W		
⚠ R127			RD14NB2E100J	RD	10	J	1/4W		
⚠ R128			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W		
R130-132			RK73GB1J101J	CHIP R	100	J	1/16W		
R133			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R134			RK73GB1J473J	CHIP R	47K	J	1/16W		
R135,136			RK73GB1J101J	CHIP R	100	J	1/16W		
R137,138			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R139			RK73GB1J101J	CHIP R	100	J	1/16W		
R140,141			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R142			RK73GB1J101J	CHIP R	100	J	1/16W	E1Y1E2	
R150-161			RK73GB1J101J	CHIP R	100	J	1/16W		
R170			RK73GB1J103J	CHIP R	10K	J	1/16W	E1E2	
R171-173			RK73GB1J101J	CHIP R	100	J	1/16W	KP1K1	
R171-173			RK73GB1J101J	CHIP R	100	J	1/16W	P2E1E2	
R174,175			RK73GB1J101J	CHIP R	100	J	1/16W		
R176-178			RK73GB1J101J	CHIP R	100	J	1/16W	E1E2Y1	
R179,180			RK73GB1J101J	CHIP R	100	J	1/16W		
R181-192			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R197			RD14NB2E560J	RD	56	J	1/4W		
R198			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R199			RK73GB1J101J	CHIP R	100	J	1/16W		
R200			RK73GB1J221J	CHIP R	220	J	1/16W		
R201			RK73GB1J101J	CHIP R	100	J	1/16W		
R202,203			RK73GB1J103J	CHIP R	10K	J	1/16W		
R204-208			RK73GB1J101J	CHIP R	100	J	1/16W		
R209			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R212,213			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R212,213			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2	
R214,215			RK73GB1J104J	CHIP R	100K	J	1/16W		
R216			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R223,224			RK73GB1J103J	CHIP R	10K	J	1/16W		
R229			RK73GB1J101J	CHIP R	100	J	1/16W		
R230			RK73GB1J220J	CHIP R	22	J	1/16W	E1E2	
R231,232			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E1E2	
R233			RK73GB1J103J	CHIP R	10K	J	1/16W	E1E2	
R234			RK73GB1J221J	CHIP R	220	J	1/16W	E1E2	
R235,236			RK73GB1J105J	CHIP R	1.0M	J	1/16W	E1E2	
R251-256			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R257			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R258,259			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R264-266			RK73GB1J103J	CHIP R	10K	J	1/16W		
R301-303			RK73GB1J391J	CHIP R	390	J	1/16W		

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R304-306			RK73GB1J101J	CHIP R	100	J	1/16W		
R307,308			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R309			RK73GB1J474J	CHIP R	470K	J	1/16W		
R310			RK73GB1J163J	CHIP R	16K	J	1/16W		
R311			RK73GB1J153J	CHIP R	15K	J	1/16W		
R312			RK73GB1J470J	CHIP R	47	J	1/16W		
R313-315			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R316			RK73GB1J103J	CHIP R	10K	J	1/16W		
R317			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R318			RK73GB1J104J	CHIP R	100K	J	1/16W		
R321,322			RK73GB1J471J	CHIP R	470	J	1/16W		
R324			RK73GB1J471J	CHIP R	470	J	1/16W		
R325			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R326,327			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R329			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R330			RK73GB1J471J	CHIP R	470	J	1/16W		
R331			RD14NB2E332J	RD	3.3K	J	1/4W		
R332			RK73GB1J221J	CHIP R	220	J	1/16W		
⚠ R333			RD14NB2E2R2J	RD	2.2	J	1/4W		
R334			RK73GB1J101J	CHIP R	100	J	1/16W		
⚠ R341-346			RD14NB2E1R0J	RD	1	J	1/4W		
R350-361			RK73GB1J473J	CHIP R	47K	J	1/16W		
R370-372			RK73GB1J4R7J	CHIP R	4.7	J	1/16W		
R400			RK73GB1J473J	CHIP R	47K	J	1/16W		
R401,402			RK73GB1J101J	CHIP R	100	J	1/16W		
R403			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R410,411			RD14NB2E4R7J	RD	4.7	J	1/4W		
R501			RK73GB1J104J	CHIP R	100K	J	1/16W		
R502			RK73FB2A750J	CHIP R	75	J	1/10W		
R503			RK73GB1J104J	CHIP R	100K	J	1/16W		
R504,505			RK73FB2A750J	CHIP R	75	J	1/10W		
R506			RK73FB2A750J	CHIP R	75	J	1/10W	K1P2	
R507			RK73FB2A750J	CHIP R	75	J	1/10W		
R508			RK73GB1J104J	CHIP R	100K	J	1/16W		
R509			RK73FB2A680J	CHIP R	68	J	1/10W		
R510			RK73GB1J104J	CHIP R	100K	J	1/16W		
R511			RK73FB2A680J	CHIP R	68	J	1/10W		
R512			RK73GB1J104J	CHIP R	100K	J	1/16W		
R513			RK73FB2A680J	CHIP R	68	J	1/10W		
R514,515			RK73GB1J103J	CHIP R	10K	J	1/16W		
R516			RD14NB2E4R7J	RD	4.7	J	1/4W		
R529,530			RK73GB1J473J	CHIP R	47K	J	1/16W		
R531-533			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R536			RK73FB2A680J	CHIP R	68	J	1/10W		
R539			RK73GB1J103J	CHIP R	10K	J	1/16W		
R540			RK73GB1J473J	CHIP R	47K	J	1/16W		
R541			RK73GB1J104J	CHIP R	100K	J	1/16W		
R542			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R543			RK73GB1J473J	CHIP R	47K	J	1/16W		
R551-553			RK73GB1J101J	CHIP R	100	J	1/16W		
R554			RK73GB1J101J	CHIP R	100	J	1/16W	K1P2	
R555,556			RK73GB1J101J	CHIP R	100	J	1/16W		
R557			RK73GB1J101J	CHIP R	100	J	1/16W	K1P2	
R558-560			RK73GB1J101J	CHIP R	100	J	1/16W		
R563			RK73GB1J104J	CHIP R	100K	J	1/16W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R601,602			RK73GB1J104J	CHIP R	100K	J	1/16W		
R603			RK73FB2A750J	CHIP R	75	J	1/10W		
R604,605			RK73GB1J104J	CHIP R	100K	J	1/16W		
R606,607			RK73FB2A750J	CHIP R	75	J	1/10W		
R608			RK73FB2A750J	CHIP R	75	J	1/10W	K1P2	
R609			RK73FB2A750J	CHIP R	75	J	1/10W		
R610,611			RK73GB1J104J	CHIP R	100K	J	1/16W		
R612-614			RK73FB2A750J	CHIP R	75	J	1/10W		
R615			RK73FB2A750J	CHIP R	75	J	1/10W	K1P2	
R616			RK73FB2A750J	CHIP R	75	J	1/10W		
R617			RK73GB1J104J	CHIP R	100K	J	1/16W		
R618,619			RK73FB2A680J	CHIP R	68	J	1/10W		
R620,621			RK73GB1J104J	CHIP R	100K	J	1/16W		
R622,623			RK73FB2A680J	CHIP R	68	J	1/10W		
R624			RK73GB1J104J	CHIP R	100K	J	1/16W		
R625,626			RK73FB2A680J	CHIP R	68	J	1/10W		
R627-630			RK73GB1J103J	CHIP R	10K	J	1/16W		
R631,632			RK73GB1J473J	CHIP R	47K	J	1/16W		
R633,634			RK73GB1J1R0J	CHIP R	1	J	1/16W	KP1E1	
R635			RK73GB1J1R0J	CHIP R	1	J	1/16W	K1P2	
R636			RK73GB1J103J	CHIP R	10K	J	1/16W	K1P2	
R637			RK73GB1J273J	CHIP R	27K	J	1/16W	K1P2	
R638			RK73GB1J332J	CHIP R	3.3K	J	1/16W	K1P2	
R639,640			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R641,642			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R643,644			RK73GB1J151J	CHIP R	150	J	1/16W	K1P2	
R645			RK73GB1J473J	CHIP R	47K	J	1/16W		
R647			RK73GB1J103J	CHIP R	10K	J	1/16W	K1P2	
R648			RK73GB1J223J	CHIP R	22K	J	1/16W	K1P2	
R649,650			RK73GB1J103J	CHIP R	10K	J	1/16W	K1P2	
R651			RK73GB1J562J	CHIP R	5.6K	J	1/16W	K1P2	
R652			RK73GB1J104J	CHIP R	100K	J	1/16W	K1P2	
R653			RK73GB1J101J	CHIP R	100	J	1/16W	K1P2	
R654			RK73GB1J474J	CHIP R	470K	J	1/16W	K1P2	
R655			RK73GB1J103J	CHIP R	10K	J	1/16W	K1P2	
R659-662			RK73GB1J911J	CHIP R	910	J	1/16W	K1P2	
R663			RK73GB1J183J	CHIP R	18K	J	1/16W	K1P2	
R665			RK73GB1J103J	CHIP R	10K	J	1/16W	K1P2	
R666			RK73GB1J273J	CHIP R	27K	J	1/16W	K1P2	
R667			RK73GB1J332J	CHIP R	3.3K	J	1/16W	K1P2	
R668			RK73GB1J104J	CHIP R	100K	J	1/16W	K1P2	
R669,670			RK73GB1J471J	CHIP R	470	J	1/16W	K1P2	
R674			RK73GB1J1R0J	CHIP R	1	J	1/16W		
⚠ R687			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R701-706			RK73FB2A750J	CHIP R	75	J	1/10W	E2V	
R701-706			RK73FB2A750J	CHIP R	75	J	1/10W	KP1E1	
R701-706			RK73FB2A750J	CHIP R	75	J	1/10W	Y1M1X1	
R707-709			RK73GB1J104J	CHIP R	100K	J	1/16W	E2V	
R707-709			RK73GB1J104J	CHIP R	100K	J	1/16W	KP1E1	
R707-709			RK73GB1J104J	CHIP R	100K	J	1/16W	Y1M1X1	
R710-712			RK73FB2A390J	CHIP R	39	J	1/10W	E2V	
R710-712			RK73FB2A390J	CHIP R	39	J	1/10W	KP1E1	
R710-712			RK73FB2A390J	CHIP R	39	J	1/10W	Y1M1X1	
R713-715			RK73GB1J1R0J	CHIP R	1	J	1/16W	E2V	
R713-715			RK73GB1J1R0J	CHIP R	1	J	1/16W	KP1E1	

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
R713-715			RK73GB1J1R0J	CHIP R 1 J 1/16W	Y1M1X1	
R768-770			RK73GB1J102J	CHIP R 1.0K J 1/16W	E2V	
R768-770			RK73GB1J102J	CHIP R 1.0K J 1/16W	KP1E1	
R768-770			RK73GB1J102J	CHIP R 1.0K J 1/16W	Y1M1X1	
R780			RK73GB1J473J	CHIP R 47K J 1/16W	E2	
R780			RK73GB1J473J	CHIP R 47K J 1/16W	KP1E1	
R780			RK73GB1J473J	CHIP R 47K J 1/16W	Y1M1X1	
R784-786			RK73GB1J104J	CHIP R 100K J 1/16W	E2V	
R784-786			RK73GB1J104J	CHIP R 100K J 1/16W	KP1E1	
R784-786			RK73GB1J104J	CHIP R 100K J 1/16W	Y1M1X1	
R805-810			RK73GB1J101J	CHIP R 100 J 1/16W	E2V	
R805-810			RK73GB1J101J	CHIP R 100 J 1/16W	KP1E1	
R805-810			RK73GB1J101J	CHIP R 100 J 1/16W	Y1M1X1	
R830			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R840			RK73GB1J1R0J	CHIP R 1 J 1/16W	E2V	
R840			RK73GB1J1R0J	CHIP R 1 J 1/16W	KP1E1	
R840			RK73GB1J1R0J	CHIP R 1 J 1/16W	Y1M1X1	
⚠ R851			RK73GB1J1R0J	CHIP R 1 J 1/16W	E2V	
⚠ R851			RK73GB1J1R0J	CHIP R 1 J 1/16W	KP1E1	
⚠ R851			RK73GB1J1R0J	CHIP R 1 J 1/16W	Y1M1X1	
R901-908			RK73GB1J101J	CHIP R 100 J 1/16W	KP1K1	
R901-908			RK73GB1J101J	CHIP R 100 J 1/16W	P2	
R909			RK73GB1J220J	CHIP R 22 J 1/16W	KP1K1	
R909			RK73GB1J220J	CHIP R 22 J 1/16W	P2	
W501,502			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)		
D1			U1BC44	DIODE		
D2			MA111	DIODE		
D3			U1BC44	DIODE		
D4 -6			MA111	DIODE		
D7			DAN202U	DIODE		
D7			1SS301	DIODE		
D8			DAP202U	DIODE		
D8			1SS300	DIODE		
D9			DAN202U	DIODE		
D9			1SS301	DIODE		
D10			DAP202U	DIODE		
D10			1SS300	DIODE		
D11 -23			MA111	DIODE		
D27 -29			U1BC44	DIODE		
D30			UDZS5.6B	ZENER DIODE		
D30			UDZ5.6B	ZENER DIODE		
D35			DAN202U	DIODE		
D35			1SS301	DIODE		
D36 ,37			MA111	DIODE		
D38			DAN202U	DIODE		
D38			1SS301	DIODE		
D41 ,42			DAP202U	DIODE		
D41 ,42			1SS300	DIODE		
D43 -45			MA111	DIODE		
⚠ D51			S1ZB20(4072)	DIODE		
D52			UDZS8.2B	ZENER DIODE		
D52			UDZ8.2B	ZENER DIODE		
D53		✻	UDZS7.5B	ZENER DIODE		
D53			UDZ7.5B	ZENER DIODE		
⚠ D61			D4SBL20UF03	DIODE		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D62			UDZS6.2B	ZENER DIODE		
D62			UDZ6.2B	ZENER DIODE		
D63			MA111	DIODE		
⚠ D71			KBP02ML-6127	DIODE		
D72			UDZ16B	ZENER DIODE		
D80 ,81			DA204U	DIODE		
D80 ,81			1SS302	DIODE		
D501			DAN202U	DIODE		
D501			1SS301	DIODE		
D502			DAP202U	DIODE		
D502			1SS300	DIODE		
D503,504			MA111	DIODE		
D601			DAN202U	DIODE		
D601			1SS301	DIODE		
D602			DAP202U	DIODE		
D602			1SS300	DIODE		
D603,604			MA111	DIODE		
D605			DA204U	DIODE	K1P2	
D605			1SS302	DIODE	K1P2	
IC1			TA78057S	ANALOGUE IC		
IC2			S-80740AL-A4	IC(VOLTAGE DETECTOR)		
IC2		✻	S-80840ALUP	MOS-IC		
IC3		✻	UPD784217A516	MI-COM IC		
IC4			TC74HCT7007AF	MOS-IC		
IC5			TC74HC164AF	IC(SHIFT REGISTER)		
IC6			UPD17215GT-737	MI-COM IC		
IC7			LC72723M	MOS-IC	E1E2	
IC501		✻	MM1140XFF	ANALOGUE IC		
IC502			BA7611AF	ANALOGUE IC		
IC503			BA7623F	ANALOGUE IC		
IC504			BA7649AF	ANALOGUE IC		
IC507		✻	MM1508	ANALOGUE IC		
IC601,602		✻	MM1140XFF	ANALOGUE IC		
IC603			BA7611AF	ANALOGUE IC		
IC604			BA7612F	ANALOGUE IC		
IC605,606			BA7623F	ANALOGUE IC		
IC607			NJM4565M	ANALOGUE IC	K1P2	
⚠ IC608			UPC29M05HB	ANALOGUE IC		
IC701			BA7613F	ANALOGUE IC	E2V	
IC701			BA7613F	ANALOGUE IC	KP1E1	
IC701			BA7613F	ANALOGUE IC	Y1M1X1	
IC702,703			BA7612F	ANALOGUE IC	E2V	
IC702,703			BA7612F	ANALOGUE IC	KP1E1	
IC702,703			BA7612F	ANALOGUE IC	Y1M1X1	
⚠ IC708			UPC29M05HB	ANALOGUE IC	E2V	
⚠ IC708			UPC29M05HB	ANALOGUE IC	KP1E1	
⚠ IC708			UPC29M05HB	ANALOGUE IC	Y1M1X1	
IC901			MAX232NS	MOS-IC	KP1K1	
IC901			MAX232NS	MOS-IC	P2	
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SC4116(Y,GR)	TRANSISTOR		
Q2			DTC124EUA	DIGITAL TRANSISTOR	Y1M1V	
Q2			UN5212	DIGITAL TRANSISTOR	Y1M1V	
Q3			DTA113ZUA	DIGITAL TRANSISTOR		
Q3			UN5119	DIGITAL TRANSISTOR		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
Q4			DTC143TUA	DIGITAL TRANSISTOR		
Q4			UN5216	DIGITAL TRANSISTOR		
Q5			DTA113ZUA	DIGITAL TRANSISTOR		
Q5			UN5119	DIGITAL TRANSISTOR		
Q6			DTC143TUA	DIGITAL TRANSISTOR		
Q6			UN5216	DIGITAL TRANSISTOR		
Q7			DTA113ZUA	DIGITAL TRANSISTOR		
Q7			UN5119	DIGITAL TRANSISTOR		
Q8			DTC143TUA	DIGITAL TRANSISTOR		
Q8			UN5216	DIGITAL TRANSISTOR		
Q9			DTA113ZUA	DIGITAL TRANSISTOR		
Q9			UN5119	DIGITAL TRANSISTOR		
Q10			DTC143TUA	DIGITAL TRANSISTOR		
Q10			UN5216	DIGITAL TRANSISTOR		
Q11			DTA113ZUA	DIGITAL TRANSISTOR		
Q11			UN5119	DIGITAL TRANSISTOR		
Q12			DTC143TUA	DIGITAL TRANSISTOR		
Q12			UN5216	DIGITAL TRANSISTOR		
Q13			DTA113ZUA	DIGITAL TRANSISTOR		
Q13			UN5119	DIGITAL TRANSISTOR		
Q14			DTC143TUA	DIGITAL TRANSISTOR		
Q14			UN5216	DIGITAL TRANSISTOR		
Q15			DTA143TUA	DIGITAL TRANSISTOR		
Q15			UN5116	DIGITAL TRANSISTOR		
Q16			DTC124EUA	DIGITAL TRANSISTOR		
Q16			UN5212	DIGITAL TRANSISTOR		
Q17			2SC3940A(R,S)	TRANSISTOR		
Q18			DTA143TUA	DIGITAL TRANSISTOR		
Q18			UN5116	DIGITAL TRANSISTOR		
Q19			2SC4213(B)	TRANSISTOR		
Q31 ,32			2SK246(Y,GR)	FET		
⚠ Q33 ,34			2SB1375	TRANSISTOR		
⚠ Q35			2SC4081(R,S)	TRANSISTOR		
⚠ Q35			2SC4116(Y,GR)	TRANSISTOR		
⚠ Q36			2SA1576A(R,S)	TRANSISTOR		
⚠ Q36			2SA1586(Y,GR)	TRANSISTOR		
Q37			2SC4081(R,S)	TRANSISTOR		
Q37			2SC4116(Y,GR)	TRANSISTOR		
Q38			2SA1576A(R,S)	TRANSISTOR		
Q38			2SA1586(Y,GR)	TRANSISTOR		
⚠ Q41 ,42			2SB1375	TRANSISTOR		
⚠ Q43			2SC4081(R,S)	TRANSISTOR		
⚠ Q43			2SC4116(Y,GR)	TRANSISTOR		
⚠ Q45			2SB1375	TRANSISTOR		
⚠ Q46			2SC4081(R,S)	TRANSISTOR		
⚠ Q46			2SC4116(Y,GR)	TRANSISTOR		
⚠ Q51			2SD2012	TRANSISTOR		
⚠ Q52			2SC4081(R,S)	TRANSISTOR		
⚠ Q52			2SC4116(Y,GR)	TRANSISTOR		
Q61			DTC124EUA	DIGITAL TRANSISTOR		
Q61			UN5212	DIGITAL TRANSISTOR		
Q62			DTA143TUA	DIGITAL TRANSISTOR		
Q62			UN5116	DIGITAL TRANSISTOR		
Q501,502			2SC4213(B)	TRANSISTOR		
Q504,505			DTA124EUA	DIGITAL TRANSISTOR		

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Q504,505			UN5112	DIGITAL TRANSISTOR		
Q506			DTC124EUA	DIGITAL TRANSISTOR		
Q506			UN5212	DIGITAL TRANSISTOR		
Q508,509			2SC4213(B)	TRANSISTOR		
Q601-604			2SC4213(B)	TRANSISTOR		
Q605,606			DTA124EUA	DIGITAL TRANSISTOR		
Q605,606			UN5112	DIGITAL TRANSISTOR		
Q607			DTC124EUA	DIGITAL TRANSISTOR		
Q607			UN5212	DIGITAL TRANSISTOR		
Q608,609			DTA124EUA	DIGITAL TRANSISTOR	K1P2	
Q608,609			UN5112	DIGITAL TRANSISTOR	K1P2	
Q610,611			DTC124EUA	DIGITAL TRANSISTOR	K1P2	
Q610,611			UN5212	DIGITAL TRANSISTOR	K1P2	
Q613,614			2SC4213(B)	TRANSISTOR		
Q715-717			2SC4213(B)	TRANSISTOR	E2V	
Q715-717			2SC4213(B)	TRANSISTOR	KP1E1	
Q715-717			2SC4213(B)	TRANSISTOR	Y1M1X1	

DISPLAY UNIT (X25-641/642X-XX)

D3 -10			B30-2532-05	LED(INFRARED)				
D11			B30-2548-05	LED(GRN5,HI BRT)			KP1K1	
D11			B30-2548-05	LED(GRN5,HI BRT)			M1X1E2	
D11			B30-2548-05	LED(GRN5,HI BRT)			P2E1Y1	
D11			B30-2571-05	LED(GRN5,HI BRT)			V	
D12			B30-2430-05	LED(RED)				
D15 -18			B30-2571-05	LED(RED5,HI BRT)			V	
D15 -18			B30-2573-05	LED(RED5,HI BRT)			KP1K1	
D15 -18			B30-2573-05	LED(RED5,HI BRT)			M1X1E2	
D15 -18			B30-2573-05	LED(RED5,HI BRT)			P2E1Y1	
D19 -23			B30-2430-05	LED(RED)				
D24 ,25			B30-2571-05	LED(RED5,HI BRT)			V	
D24 ,25			B30-2573-05	LED(RED5,HI BRT)			KP1K1	
D24 ,25			B30-2573-05	LED(RED5,HI BRT)			M1X1E2	
D24 ,25			B30-2573-05	LED(RED5,HI BRT)			P2E1Y1	
D26			B30-2597-05	LED(RED HI-BRIGHT)				
D30 ,31			B30-2430-05	LED(RED)				
C1 ,2			CE04RW1C101M	ELECTRO	100UF	16WV		
C3			CC73GCH1H102J	CHIP C	1000PF	J		
C4			CC73GCH1H101J	CHIP C	100PF	J		
C5			CE04KW1H100M	ELECTRO	10UF	50WV		
C6			CK73GB1H103K	CHIP C	0.010UF	K		
C7 -22			CC73GCH1H221J	CHIP C	220PF	J		
C23			CE04KW1H100M	ELECTRO	10UF	50WV		
C24			CC73GCH1H471J	CHIP C	470PF	J		
C25 -27			CC73GCH1H101J	CHIP C	100PF	J		
C28			CE04KW1E470M	ELECTRO	47UF	25WV		
C31			CE04KW1H101M	ELECTRO	100UF	50WV		
C33			CK73GF1E104Z	CHIP C	0.10UF	Z		
C40			CQ93FMG1H102J	MYLAR	1000PF	J		
C41 -43			CQ93FMG1H472J	MYLAR	4700PF	J		
C44 ,45			CC73GCH1H221J	CHIP C	220PF	J		
C78 -80			CE04KW1E470M	ELECTRO	47UF	25WV		
C81 -85			CE04KW1E470M	ELECTRO	47UF	25WV	K1P2	
C86			CK73GF1E104Z	CHIP C	0.10UF	Z		
C88			CC73GCH1H270J	CHIP C	27PF	J		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C91 -93			CC73GCH1H101J	CHIP C	100PF	J		
C94			CK73GF1E104Z	CHIP C	0.10UF	Z		
C95 -97			CC73GCH1H101J	CHIP C	100PF	J		
C105			CC73GCH1H101J	CHIP C	100PF	J		
C165,166			CK73FF1C105Z	CHIP C	1.0UF	Z		
C170			CK73GB1H103K	CHIP C	0.010UF	K		
C301,302			CE04KW1H220M	ELECTRO	22UF	50WV		
C303,304			CC73GCH1H101J	CHIP C	100PF	J		
C311,312			CE04KW1H220M	ELECTRO	22UF	50WV		
C313,314			CC73GCH1H101J	CHIP C	100PF	J		
C321,322			CE04KW1H220M	ELECTRO	22UF	50WV		
C323,324			CC73GCH1H101J	CHIP C	100PF	J		
C331,332			CE04KW1H220M	ELECTRO	22UF	50WV		
C333,334			CC73GCH1H101J	CHIP C	100PF	J		
C341,342			CE04KW1H220M	ELECTRO	22UF	50WV		
C343,344			CC73GCH1H101J	CHIP C	100PF	J		
C380			CC73GCH1H101J	CHIP C	100PF	J		
C401,402			CC73GCH1H221J	CHIP C	220PF	J		
C404,405			CC73GCH1H221J	CHIP C	220PF	J		
C406			CC73GCH1H101J	CHIP C	100PF	J	E2	
C406			CC73GCH1H101J	CHIP C	100PF	J	KP1K1	
C406			CC73GCH1H101J	CHIP C	100PF	J	P2E1Y1	
C407			CK73GF1E104Z	CHIP C	0.10UF	Z	E2	
C407			CK73GF1E104Z	CHIP C	0.10UF	Z	KP1K1	
C407			CK73GF1E104Z	CHIP C	0.10UF	Z	P2E1Y1	
C410			CE04KW1A101M	ELECTRO	100UF	10WV	KP1K1	
C410			CE04KW1A101M	ELECTRO	100UF	10WV	P2	
C415			CC73GCH1H101J	CHIP C	100PF	J	E2	
C415			CC73GCH1H101J	CHIP C	100PF	J	KP1K1	
C415			CC73GCH1H101J	CHIP C	100PF	J	P2E1Y1	
C416			CC73GCH1H331J	CHIP C	330PF	J	E2	
C416			CC73GCH1H331J	CHIP C	330PF	J	KP1K1	
C416			CC73GCH1H331J	CHIP C	330PF	J	P2E1Y1	
C417			CC73GCH1H102J	CHIP C	1000PF	J	E2	
C417			CC73GCH1H102J	CHIP C	1000PF	J	KP1K1	
C417			CC73GCH1H102J	CHIP C	1000PF	J	P2E1Y1	
C419-421			CC73GCH1H101J	CHIP C	100PF	J	E2	
C419-421			CC73GCH1H101J	CHIP C	100PF	J	KP1K1	
C419-421			CC73GCH1H101J	CHIP C	100PF	J	P2E1Y1	
C430,431			CK73GF1E104Z	CHIP C	0.10UF	Z	E2	
C430,431			CK73GF1E104Z	CHIP C	0.10UF	Z	KP1K1	
C430,431			CK73GF1E104Z	CHIP C	0.10UF	Z	P2E1Y1	
CN2		✻	E40-8794-05	PIN ASSY				
CN4			E40-9823-05	SOCKET FOR PIN ASSY				
CN5		✻	E40-8622-05	PIN ASSY			E1Y1M1	
CN5		✻	E40-8622-05	PIN ASSY			X1E2V	
CN101			E40-8257-05	FLAT CABLE CONNECTOR				
CN102			E40-8254-05	FLAT CABLE CONNECTOR				
CN103			E40-8531-05	FLAT CABLE CONNECTOR			KP1K1	
CN103			E40-8531-05	FLAT CABLE CONNECTOR			P2	
J1		✻	E70-0133-15	SCREW TERMINAL BOARD				
J5			E63-1121-05	PIN JACK				
J6			E56-0026-05	CYLINDRICAL RECEPTACLE				
J7			E11-0190-05	PHONE JACK (3P)				
J101		✻	E63-1173-05	PIN JACK			E2V	
J101		✻	E63-1173-05	PIN JACK			KP1E1	

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J101		✻	E63-1173-05	PIN JACK				Y1M1X1	
J101		✻	E63-1176-05	PIN JACK				K1P2	
J102		✻	E63-1174-05	PIN JACK				E2V	
J102		✻	E63-1174-05	PIN JACK				KP1E1	
J102		✻	E63-1174-05	PIN JACK				Y1M1X1	
J102		✻	E63-1177-05	PIN JACK				K1P2	
J103		✻	E63-1178-05	PIN JACK				E2V	
J103		✻	E63-1178-05	PIN JACK				KP1E1	
J103		✻	E63-1178-05	PIN JACK				Y1M1X1	
J103		✻	E63-1179-05	PIN JACK				K1P2	
J201			E11-0907-05	MINIATURE PHONE JACK(2.5MM 1P)					
J202			E11-0347-05	MINIATURE PHONE JACK(2P)					
J203,204			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)				E2	
J203,204			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)				KP1K1	
J203,204			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)				P2E1Y1	
J207,208			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)				E2	
J207,208			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)				KP1K1	
J207,208			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)				P2E1Y1	
J209			E11-0291-05	MINIATURE PHONE JACK(2P)				E2	
J209			E11-0291-05	MINIATURE PHONE JACK(2P)				KP1K1	
J209			E11-0291-05	MINIATURE PHONE JACK(2P)				P2E1Y1	
E1			J19-6056-04	HOLDER					
E3 ,4			J11-0809-05	WIRE CLAMPER					
L401			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)				E2	
L401			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)				KP1K1	
L401			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)				P2E1Y1	
L403,404			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)				E2	
L403,404			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)				KP1K1	
L403,404			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)				P2E1Y1	
X1			L78-0284-05	RESONATOR (5MHZ)					
⚠ R1			RD14NB2E4R7J	RD	4.7	J	1/4W		
R4 ,5			RS14KB3A3R9J	FL-PROOF RS	3.9	J	1W		
R6			RK73GB1J151J	CHIP R	150	J	1/16W	KP1K2	
R6			RK73GB1J151J	CHIP R	150	J	1/16W	M1X1E2	
R6			RK73GB1J151J	CHIP R	150	J	1/16W	P1E1Y1	
R6			RK73GB1J221J	CHIP R	220	J	1/16W	V	
R7			RK73GB1J301J	CHIP R	300	J	1/16W		
⚠ R9			RD14NB2E100J	RD	10	J	1/4W		
R10 -12			RK73GB1J473J	CHIP R	47K	J	1/16W		
R14 -16			RK73GB1J473J	CHIP R	47K	J	1/16W		
R17 -67			RK73GB1J474J	CHIP R	470K	J	1/16W		
R68			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R69 ,70			RK73GB1J473J	CHIP R	47K	J	1/16W		
R71			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R72 -74			RK73GB1J473J	CHIP R	47K	J	1/16W		
R75			RK73GB1J333J	CHIP R	33K	J	1/16W		
⚠ R79			RS14KB3A390J	FL-PROOF RS	39	J	1W		
R81			RK73GB1J100J	CHIP R	10	J	1/16W		
R82 -85			RK73GB1J221J	CHIP R	220	J	1/16W	V	
R82 -85			RK73GB1J271J	CHIP R	270	J	1/16W	KP1K1	
R82 -85			RK73GB1J271J	CHIP R	270	J	1/16W	M1X1E2	
R82 -85			RK73GB1J271J	CHIP R	270	J	1/16W	P2E1Y1	
R86 -90			RK73GB1J301J	CHIP R	300	J	1/16W		
R91 ,92			RK73GB1J221J	CHIP R	220	J	1/16W	V	
R91 ,92			RK73GB1J271J	CHIP R	270	J	1/16W	KP1K1	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R91 ,92			RK73GB1J271J	CHIP R	270	J	1/16W	M1X1E2	
R91 ,92			RK73GB1J271J	CHIP R	270	J	1/16W	P2E1Y1	
R93 -106			RK73GB1J103J	CHIP R	10K	J	1/16W		
R112-114			RK73GB1J101J	CHIP R	100	J	1/16W		
R115			RK73GB1J473J	CHIP R	47K	J	1/16W		
⚠ R118			RD14NB2E101J	RD	100	J	1/4W		
⚠ R120			RD14NB2E330J	RD	33	J	1/4W		
R121			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R122			RK73GB1J101J	CHIP R	100	J	1/16W		
R123			RK73GB1J103J	CHIP R	10K	J	1/16W		
R124			RK73GB1J101J	CHIP R	100	J	1/16W		
R126,127			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R191-193			RD14NB2E100J	RD	10	J	1/4W		
R194-198			RD14NB2E100J	RD	10	J	1/4W	K1P2	
R199			RK73GB1J100J	CHIP R	10	J	1/16W		
R200			RK73GB1J101J	CHIP R	100	J	1/16W		
R201			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R205			RK73GB1J681J	CHIP R	680	J	1/16W		
R211,212			RK73GB1J223J	CHIP R	22K	J	1/16W		
R213,214			RK73GB1J101J	CHIP R	100	J	1/16W		
R215,216			RK73GB1J750J	CHIP R	75	J	1/16W		
R217			RK73GB1J474J	CHIP R	470K	J	1/16W		
R218			RK73GB1J750J	CHIP R	75	J	1/16W		
R219-225			RK73GB1J513J	CHIP R	51K	J	1/16W		
R232			RK73GB1J101J	CHIP R	100	J	1/16W		
R249			RK73GB1J103J	CHIP R	10K	J	1/16W		
R298,299			RK73GB1J301J	CHIP R	300	J	1/16W		
R301,302			RK73GB1J224J	CHIP R	220K	J	1/16W		
R305,306			RK73GB1J221J	CHIP R	220	J	1/16W		
R307,308			RK73GB1J470J	CHIP R	47	J	1/16W		
R311,312			RK73GB1J224J	CHIP R	220K	J	1/16W		
R315,316			RK73GB1J221J	CHIP R	220	J	1/16W		
R317,318			RK73GB1J470J	CHIP R	47	J	1/16W		
R321,322			RK73GB1J224J	CHIP R	220K	J	1/16W		
R325,326			RK73GB1J221J	CHIP R	220	J	1/16W		
R327,328			RK73GB1J470J	CHIP R	47	J	1/16W		
R331,332			RK73GB1J224J	CHIP R	220K	J	1/16W		
R335,336			RK73GB1J221J	CHIP R	220	J	1/16W		
R337,338			RK73GB1J470J	CHIP R	47	J	1/16W		
R341,342			RK73GB1J224J	CHIP R	220K	J	1/16W		
R345,346			RK73GB1J221J	CHIP R	220	J	1/16W		
R347,348			RK73GB1J470J	CHIP R	47	J	1/16W		
R351-370			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R380			RK73GB1J104J	CHIP R	100K	J	1/16W		
R401			RD14NB2E471J	RD	470	J	1/4W	E2	
R401			RD14NB2E471J	RD	470	J	1/4W	KP1K1	
R401			RD14NB2E471J	RD	470	J	1/4W	P2E1Y1	
R402			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E2	
R402			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R402			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2E1Y1	
R403			RK73GB1J473J	CHIP R	47K	J	1/16W	E2	
R403			RK73GB1J473J	CHIP R	47K	J	1/16W	KP1K1	
R403			RK73GB1J473J	CHIP R	47K	J	1/16W	P2E1Y1	
R404			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E2	
R404			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R404			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2E1Y1	

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R424			RD14NB2E101J	RD	100	J	1/4W	E2	
R424			RD14NB2E101J	RD	100	J	1/4W	KP1K1	
R424			RD14NB2E101J	RD	100	J	1/4W	P2E1Y1	
R425			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E2	
R425			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R425			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2E1Y1	
R426			RK73GB1J103J	CHIP R	10K	J	1/16W	E2	
R426			RK73GB1J103J	CHIP R	10K	J	1/16W	KP1K1	
R426			RK73GB1J103J	CHIP R	10K	J	1/16W	P2E1Y1	
R427			RK73GB1J472J	CHIP R	4.7K	J	1/16W	E2	
R427			RK73GB1J472J	CHIP R	4.7K	J	1/16W	KP1K1	
R427			RK73GB1J472J	CHIP R	4.7K	J	1/16W	P2E1Y1	
R428,429			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E2	
R428,429			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R428,429			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2E1Y1	
R430			RK73GB1J223J	CHIP R	22K	J	1/16W	E2	
R430			RK73GB1J223J	CHIP R	22K	J	1/16W	KP1K1	
R430			RK73GB1J223J	CHIP R	22K	J	1/16W	P2E1Y1	
R431,432			RD14NB2E471J	RD	470	J	1/4W	E2	
R431,432			RD14NB2E471J	RD	470	J	1/4W	KP1K1	
R431,432			RD14NB2E471J	RD	470	J	1/4W	P2E1Y1	
R433			RK73GB1J101J	CHIP R	100	J	1/16W	E2	
R433			RK73GB1J101J	CHIP R	100	J	1/16W	KP1K1	
R433			RK73GB1J101J	CHIP R	100	J	1/16W	P2E1Y1	
R434			RK73GB1J223J	CHIP R	22K	J	1/16W	E2	
R434			RK73GB1J223J	CHIP R	22K	J	1/16W	KP1K1	
R434			RK73GB1J223J	CHIP R	22K	J	1/16W	P2E1Y1	
R435			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E2	
R435			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R435			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2E1Y1	
R436			RK73GB1J272J	CHIP R	2.7K	J	1/16W	E2	
R436			RK73GB1J272J	CHIP R	2.7K	J	1/16W	KP1K1	
R436			RK73GB1J272J	CHIP R	2.7K	J	1/16W	P2E1Y1	
R437			RK73GB1J222J	CHIP R	2.2K	J	1/16W	E2	
R437			RK73GB1J222J	CHIP R	2.2K	J	1/16W	KP1K1	
R437			RK73GB1J222J	CHIP R	2.2K	J	1/16W	P2E1Y1	
R438			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E2	
R438			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R438			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2E1Y1	
R439			RD14NB2E471J	RD	470	J	1/4W	E2	
R439			RD14NB2E471J	RD	470	J	1/4W	KP1K1	
R439			RD14NB2E471J	RD	470	J	1/4W	P2E1Y1	
R440,441			RK73GB1J473J	CHIP R	47K	J	1/16W	E2	
R440,441			RK73GB1J473J	CHIP R	47K	J	1/16W	KP1K1	
R440,441			RK73GB1J473J	CHIP R	47K	J	1/16W	P2E1Y1	
R444			RK73GB1J472J	CHIP R	4.7K	J	1/16W	E2	
R444			RK73GB1J472J	CHIP R	4.7K	J	1/16W	KP1K1	
R444			RK73GB1J472J	CHIP R	4.7K	J	1/16W	P2E1Y1	
R445			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E2	
R445			RK73GB1J102J	CHIP R	1.0K	J	1/16W	KP1K1	
R445			RK73GB1J102J	CHIP R	1.0K	J	1/16W	P2E1Y1	
R449			RK73GB1J180J	CHIP R	18	J	1/16W		
R450			RD14NB2E101J	RD	100	J	1/4W	E2	
R450			RD14NB2E101J	RD	100	J	1/4W	KP1K1	
R450			RD14NB2E101J	RD	100	J	1/4W	P2E1Y1	

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
W202			R92-0679-05	CHIP R 0 OHM		
W203			R92-0670-05	CHIP R 0 OHM		
W204			R92-0679-05	CHIP R 0 OHM		
W206			R92-0670-05	CHIP R 0 OHM		
W207			R92-0679-05	CHIP R 0 OHM		
W208			R92-0670-05	CHIP R 0 OHM		
W209			R92-0679-05	CHIP R 0 OHM		
W210			R92-0670-05	CHIP R 0 OHM		
W213			R92-0670-05	CHIP R 0 OHM		
W216,217			R92-0670-05	CHIP R 0 OHM		
W219			R92-0679-05	CHIP R 0 OHM		
W220			R92-0670-05	CHIP R 0 OHM		
S1 -17			S70-0031-05	TACT SWITCH		
⚠ S20			S68-0088-05	PUSH SWITCH (POWER TYPE)	E1Y1M1	
⚠ S20			S68-0088-05	PUSH SWITCH (POWER TYPE)	X1E2V	
S19			T99-0602-05	ROTARY ENCODER		
D1 ,2			MTZJ3.3(B)	ZENER DIODE		
D1 ,2			RD3.3ES(B2)	ZENER DIODE		
D13			MTZJ5.1(B)	ZENER DIODE		
D13			RD5.1ES(B2)	ZENER DIODE		
D14			MTZJ5.6(B)	ZENER DIODE		
D14			RD5.6ES(B2)	ZENER DIODE		
D27 ,28			DA204U	DIODE		
D27 ,28			1SS302	DIODE		
D403			DA204U	DIODE	E2	
D403			DA204U	DIODE	KP1K1	
D403			DA204U	DIODE	P2E1Y1	
D403			1SS302	DIODE	E2	
D403			1SS302	DIODE	KP1K1	
D403			1SS302	DIODE	P2E1Y1	
D408			DA204U	DIODE	E2	
D408			DA204U	DIODE	KP1K1	
D408			DA204U	DIODE	P2E1Y1	
D408			1SS302	DIODE	E2	
D408			1SS302	DIODE	KP1K1	
D408			1SS302	DIODE	P2E1Y1	
D410			HSS104A	DIODE	E2	
D410			HSS104A	DIODE	KP1K1	
D410			HSS104A	DIODE	P2E1Y1	
D410			1SS133	DIODE	E2	
D410			1SS133	DIODE	KP1K1	
D410			1SS133	DIODE	P2E1Y1	
D411			DA204U	DIODE	E2	
D411			DA204U	DIODE	KP1K1	
D411			DA204U	DIODE	P2E1Y1	
D411			1SS302	DIODE	E2	
D411			1SS302	DIODE	KP1K1	
D411			1SS302	DIODE	P2E1Y1	
D412,413			HSS104A	DIODE	E2	
D412,413			HSS104A	DIODE	KP1K1	
D412,413			HSS104A	DIODE	P2E1Y1	
D412,413			1SS133	DIODE	E2	
D412,413			1SS133	DIODE	KP1K1	
D412,413			1SS133	DIODE	P2E1Y1	
D414			HSS104A	DIODE	E1Y1E2	

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D414			1SS133	DIODE	E1Y1E2	
ED1			16-MT-62GK	FLUORESCENT INDICATOR TUBE		
IC1			UPD780204-038	MI-COM IC		
IC11			TC74HC151AF	MOS-IC		
IC401			TC4W53FU	MOS-IC	E2	
IC401			TC4W53FU	MOS-IC	KP1K1	
IC401			TC4W53FU	MOS-IC	P2E1Y1	
⚠ Q1 -3			2SC3940A(R,S)	TRANSISTOR		
Q4			DTC124EUA	DIGITAL TRANSISTOR		
Q4			UN5212	DIGITAL TRANSISTOR		
Q5 ,6			DTA124EUA	DIGITAL TRANSISTOR		
Q5 ,6			UN5112	DIGITAL TRANSISTOR		
Q7 -16			DTC124EUA	DIGITAL TRANSISTOR		
Q7 -16			UN5212	DIGITAL TRANSISTO		
Q20			DTA124EUA	DIGITAL TRANSISTOR		
Q20			UN5112	DIGITAL TRANSISTOR		
Q21			DTC124EUA	DIGITAL TRANSISTOR		
Q21			UN5212	DIGITAL TRANSISTOR		
Q301-320			2SC2878(B)	TRANSISTOR		
Q401			2SC4081(R,S)	TRANSISTOR	E2	
Q401			2SC4081(R,S)	TRANSISTOR	KP1K1	
Q401			2SC4081(R,S)	TRANSISTOR	P2E1Y1	
Q401			2SC4116(Y,GR)	TRANSISTOR	E2	
Q401			2SC4116(Y,GR)	TRANSISTOR	KP1K1	
Q401			2SC4116(Y,GR)	TRANSISTOR	P2E1Y1	
Q402			DTC124EUA	DIGITAL TRANSISTOR	E2	
Q402			DTC124EUA	DIGITAL TRANSISTOR	KP1K1	
Q402			DTC124EUA	DIGITAL TRANSISTOR	P2E1Y1	
Q402			UN5212	DIGITAL TRANSISTOR	E2	
Q402			UN5212	DIGITAL TRANSISTOR	KP1K1	
Q402			UN5212	DIGITAL TRANSISTOR	P2E1Y1	
Q412			2SA1576A(R,S)	TRANSISTOR	E2	
Q412			2SA1576A(R,S)	TRANSISTOR	KP1K1	
Q412			2SA1576A(R,S)	TRANSISTOR	P2E1Y1	
Q412			2SA1586(Y,GR)	TRANSISTOR	E2	
Q412			2SA1586(Y,GR)	TRANSISTOR	KP1K1	
Q412			2SA1586(Y,GR)	TRANSISTOR	P2E1Y1	
Q413			DTC124EUA	DIGITAL TRANSISTOR	E2	
Q413			DTC124EUA	DIGITAL TRANSISTOR	KP1K1	
Q413			DTC124EUA	DIGITAL TRANSISTOR	P2E1Y1	
Q413			UN5212	DIGITAL TRANSISTOR	E2	
Q413			UN5212	DIGITAL TRANSISTOR	KP1K1	
Q413			UN5212	DIGITAL TRANSISTOR	P2E1Y1	
Q414			2SC4081(R,S)	TRANSISTOR	E2	
Q414			2SC4081(R,S)	TRANSISTOR	KP1K1	
Q414			2SC4081(R,S)	TRANSISTOR	P2E1Y1	
Q414			2SC4116(Y,GR)	TRANSISTOR	E2	
Q414			2SC4116(Y,GR)	TRANSISTOR	KP1K1	
Q414			2SC4116(Y,GR)	TRANSISTOR	P2E1Y1	
Q415			2SA1576A(R,S)	TRANSISTOR	E2	
Q415			2SA1576A(R,S)	TRANSISTOR	KP1K1	
Q415			2SA1576A(R,S)	TRANSISTOR	P2E1Y1	
Q415			2SA1586(Y,GR)	TRANSISTOR	E2	
Q415			2SA1586(Y,GR)	TRANSISTOR	KP1K1	
Q415			2SA1586(Y,GR)	TRANSISTOR	P2E1Y1	

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
Q416,417			2SC4081(R,S)	TRANSISTOR			E2	
Q416,417			2SC4081(R,S)	TRANSISTOR			KP1K1	
Q416,417			2SC4081(R,S)	TRANSISTOR			P2E1Y1	
Q416,417			2SC4116(Y,GR)	TRANSISTOR			E2	
Q416,417			2SC4116(Y,GR)	TRANSISTOR			KP1K1	
Q416,417			2SC4116(Y,GR)	TRANSISTOR			P2E1Y1	
Q418			DTC124EUA	DIGITAL TRANSISTOR			E2	
Q418			DTC124EUA	DIGITAL TRANSISTOR			KP1K1	
Q418			DTC124EUA	DIGITAL TRANSISTOR			P2E1Y1	
Q418			UN5212	DIGITAL TRANSISTOR			E2	
Q418			UN5212	DIGITAL TRANSISTOR			KP1K1	
Q418			UN5212	DIGITAL TRANSISTOR			P2E1Y1	
Q419			DTA124EUA	DIGITAL TRANSISTOR			E1Y1E2	
Q419			UN5112	DIGITAL TRANSISTOR			E1Y1E2	
A1			W02-2734-05	OPTIC RECEIVING MODULE				
A2			W02-2717-05	OSCILLATING MODULE				
A3 ,4			W02-2716-05	OPTIC RECEIVING MODULE				
A5 -9			W02-2716-05	OPTIC RECEIVING MODULE			K1P2	
VIDEO UNIT (X35-2260-10) VR-5090 only								
C1 -9			CC73GCH1H100D	CHIP C	10PF	D		
C10 -15			CE04KW1A101M	ELECTRO	100UF	10WV		
C16 -18			CE04KW1A471M	ELECTRO	470UF	10WV		
C19 -21			CK73GB1C104K	CHIP C	0.10UF	K		
C22 -24			CE04KW1H100M	ELECTRO	10UF	50WV		
C25 ,26			CC73GCH1H180J	CHIP C	18PF	J		
C27			CE04KW1E470M	ELECTRO	47UF	25WV		
C28 -30			CE04KW1H100M	ELECTRO	10UF	50WV		
C31			CC73GCH1H271J	CHIP C	270PF	J		
C32			CC73GCH1H391J	CHIP C	390PF	J		
C33			CK73GB1H472K	CHIP C	4700PF	K		
C34			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C35			CE04KW1E470M	ELECTRO	47UF	25WV		
C36			CK73GB1H103K	CHIP C	0.010UF	K		
C37 -39			CE04KW1A101M	ELECTRO	100UF	10WV		
C40 ,41			CK73GB1H103K	CHIP C	0.010UF	K		
C42			CK73GF1C224Z	CHIP C	0.22UF	Z		
C43			CC73GCH1H220J	CHIP C	22PF	J		
C45			CE04KW1H0R1M	ELECTRO	0.1UF	50WV		
C46			CK73GB1H103K	CHIP C	0.010UF	K		
C47			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C48			CK73FF1C105Z	CHIP C	1.0UF	Z		
C49			CC73GCH1H102J	CHIP C	1000PF	J		
C50			CK73GB1H103K	CHIP C	0.010UF	K		
C51 ,52			CK73GF1E104Z	CHIP C	0.10UF	Z		
C53			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C54			CK73GB1H103K	CHIP C	0.010UF	K		
C55			CE04KW1A101M	ELECTRO	100UF	10WV		
C56			CK73GF1C224Z	CHIP C	0.22UF	Z		
C57			CC73GCH1H221J	CHIP C	220PF	J		
C58			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C59			CK73GB1H103K	CHIP C	0.010UF	K		
C60			CC73GCH1H102J	CHIP C	1000PF	J		
C61			CK73GF1E104Z	CHIP C	0.10UF	Z		
C62 -64			CE04KW1A101M	ELECTRO	100UF	10WV		

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C65 ,66			CK73GB1H103K	CHIP C	0.010UF	K			
C67			CE04KW1H100M	ELECTRO	10UF	50WV			
C101,102			CE04KW1C470M	ELECTRO	47UF	16WV			
C104			CK73GB1H182K	CHIP C	1800PF	K			
C105			CC73GCH1H102J	CHIP C	1000PF	J			
C106			CE04KW1H220M	ELECTRO	22UF	50WV			
C107			CK73FF1C105Z	CHIP C	1.0UF	Z			
C108,109			CK73GB1H103K	CHIP C	0.010UF	K			
C110			CC73GCH1H101J	CHIP C	100PF	J			
C151			CE04KW1E470M	ELECTRO	47UF	25WV			
C152			CE04KW1H100M	ELECTRO	10UF	50WV			
C153			CK73GF1E104Z	CHIP C	0.10UF	Z			
CN1			E40-9832-05	SOCKET FOR PIN ASSY					
J1 -3			E63-1126-05	PIN JACK					
X1			L77-2281-05	CRYSTAL RESONATOR(3.579545 MHZ)					
X3			L78-0711-05	RESONATOR	(500KHZ)				
R1 -6			RK73FB2A750J	CHIP R	75	J	1/10W		
R7 -9			RK73GB1J104J	CHIP R	100K	J	1/16W		
R10 -12			RK73FB2A680J	CHIP R	68	J	1/10W		
R13 -15			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R16 -20			RK73GB1J473J	CHIP R	47K	J	1/16W		
R21			RK73GB1J101J	CHIP R	100	J	1/16W		
R22 ,23			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R24			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R25 ,26			RK73GB1J123J	CHIP R	12K	J	1/16W		
R27			RK73GB1J473J	CHIP R	47K	J	1/16W		
R28			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R29			RK73GB1J100J	CHIP R	10	J	1/16W		
R30			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R31			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R32			RK73GB1J331J	CHIP R	330	J	1/16W		
R33			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R34			RK73GB1J432J	CHIP R	4.3K	J	1/16W		
R35			RK73GB1J914J	CHIP R	910K	J	1/16W		
R36			RK73GB1J242J	CHIP R	2.4K	J	1/16W		
R39			RK73GB1J153J	CHIP R	15K	J	1/16W		
R40			RK73GB1J684J	CHIP R	680K	J	1/16W		
R41			RK73GB1J184J	CHIP R	180K	J	1/16W		
R42			RK73GB1J433J	CHIP R	43K	J	1/16W		
R43			RK73GB1J103J	CHIP R	10K	J	1/16W		
R44			RK73GB1J273J	CHIP R	27K	J	1/16W		
R45 ,46			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R47			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R48			RK73GB1J221J	CHIP R	220	J	1/16W		
R49			RK73GB1J151J	CHIP R	150	J	1/16W		
R50			RK73GB1J750J	CHIP R	75	J	1/16W		
R51			RK73GB1J183J	CHIP R	18K	J	1/16W		
R52			RK73GB1J223J	CHIP R	22K	J	1/16W		
R53			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R55			RK73GB1J392J	CHIP R	3.9K	J	1/16W		
R56			RK73GB1J183J	CHIP R	18K	J	1/16W		
R57			RK73GB1J223J	CHIP R	22K	J	1/16W		
R58			RK73GB1J103J	CHIP R	10K	J	1/16W		
R60			RK73GB1J102J	CHIP R	1.0K	J	1/16W		

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HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
	ABB.	X	P	C	T	E	G	H	I
VR-5080	-	-	P1	-	-	-	-	-	-
VR-5090	-	-	P2	-	-	-	-	-	-
KRF-X7775D	-	-	-	-	-	E1	-	-	-
KRF-X7775D-S	-	X1	-	-	-	E2	-	-	-

MODEL	CNT	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
	ABB.	R	Y	Q	L	V	K	M	
VR-5080	-	-	-	-	-	-	K	-	-
VR-5090	-	-	-	-	-	-	K1	-	-
KRF-X7775D	-	-	Y1	-	-	-	-	-	-
KRF-X7775D-S	-	-	-	-	-	V	-	M1	-

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R63 -68			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R69 ,70			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R80			RK73GB1J473J	CHIP R 47K J 1/16W		
R82			RK73GB1J101J	CHIP R 100 J 1/16W		
R83			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R84 -86			RK73GB1J104J	CHIP R 100K J 1/16W		
R87 -90			RK73GB1J473J	CHIP R 47K J 1/16W		
R93			RK73GB1J103J	CHIP R 10K J 1/16W		
R94 -100			RK73GB1J473J	CHIP R 47K J 1/16W		
R101			RK73GB1J103J	CHIP R 10K J 1/16W		
R102			RK73GB1J273J	CHIP R 27K J 1/16W		
R103			RK73GB1J103J	CHIP R 10K J 1/16W		
R104			RK73GB1J273J	CHIP R 27K J 1/16W		
R105,106			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R107			RK73GB1J182J	CHIP R 1.8K J 1/16W		
R108			RK73GB1J103J	CHIP R 10K J 1/16W		
R109			RK73GB1J223J	CHIP R 22K J 1/16W		
R110			RK73GB1J103J	CHIP R 10K J 1/16W		
R111			RK73GB1J104J	CHIP R 100K J 1/16W		
R112			RK73GB1J101J	CHIP R 100 J 1/16W		
R113			RK73GB1J474J	CHIP R 470K J 1/16W		
R114			RK73GB1J183J	CHIP R 18K J 1/16W		
R115,116			RK73GB1J103J	CHIP R 10K J 1/16W		
R117			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R118			RK73GB1J103J	CHIP R 10K J 1/16W		
R119			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R120-132			RK73GB1J473J	CHIP R 47K J 1/16W		
R139-144			RK73GB1J4R7J	CHIP R 4.7 J 1/16W		
⚠ R151,152			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R153,154			RK73GB1J102J	CHIP R 1.0K J 1/16W		
VR1 ,2			R12-3100-05	TRIMMING POT.(10K)		
W1 -3			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)		
D3			DAP202U	DIODE		
D3			1SS300	DIODE		
D4			DA204U	DIODE		
D4			1SS302	DIODE		
IC1 -3		✻	ADG704BRM	ANALOGUE IC		
IC4		✻	CLC5623IM	ANALOGUE IC		
IC5			UPC1830GT	ANALOGUE IC		
⚠ IC8			UPC29M05HB	ANALOGUE IC		
IC10			NJM4565M	ANALOGUE IC		
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SC4116(Y,GR)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q2			2SA1586(Y,GR)	TRANSISTOR		
Q3			2SC4081(R,S)	TRANSISTOR		
Q3			2SC4116(Y,GR)	TRANSISTOR		
Q7 ,8			DTA124EUA	DIGITAL TRANSISTOR		
Q7 ,8			UN5112	DIGITAL TRANSISTOR		
Q9 ,10			DTC124EUA	DIGITAL TRANSISTOR		
Q9 ,10			UN5212	DIGITAL TRANSISTOR		
Q11			2SC4081(R,S)	TRANSISTOR		
Q11			2SC4116(Y,GR)	TRANSISTOR		
Q15 -17			2SC4213(B)	TRANSISTOR		

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SPECIFICATIONS

KRF-X7775D (for U.K.)

Audio Section

Rated Output Power during stereo operation
1 kHz, 0.03% T.H.D. , 6Ω (DIN/IEC) ..... 130W + 130 W
20 Hz ~ 20 kHz, 0.03% T.H.D. , 6Ω (IEC) ..... 120W + 120 W

Effective Output Power during surround operation
(Simultaneous power)
Front
20 Hz ~ 20 kHz, 0.03% T.H.D. at 6Ω ..... 120W + 120 W
Center
20 Hz ~ 20 kHz, 0.03% T.H.D. at 6Ω 120W
Surround
20 Hz ~ 20 kHz, 0.03% T.H.D. at 6Ω ..... 120W + 120W

Effective Output Power during surround operation
1 kHz, 0.06% T.H.D. at 6Ω all channel driven
(Front, Centte, Surround) ..... 100W × 5

Total Harmonic Distortion ..... 0.005 % (1 kHz, 60 W, 6 Ω)

Frequency Response (IHF'66)
Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 3, DVD/6CH.) ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)
PHONO (MM) ..... 76 dB
CD1 ..... 98 dB

Input Sensitivity / Impedance
PHONO (MM) ..... 4.0 mV / 47 kΩ
CD1 ..... 300 mV / 47 kΩ
DVD/6CH. ..... 300 mV / 47 kΩ

Output Level / Impedance
TAPE REC ..... 300 mV / 2.2 kΩ
PRE OUT (Front, Center, Surround, Surround back) ..... 1 V / 470 Ω
PRE OUT (Subwoofer) ..... 1.8 V / 470 Ω

Tone Control
Bass ..... ± 7 dB (at 100 Hz)
Treble ..... ± 7 dB (at 10 kHz)

Loudness Control Volume at -30 dB level ..... +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω

Output Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm

Video Section

Video Inputs / Outputs
Video (composite) ..... 1 Vp-p / 75 Ω
S Video (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω
Component (luminance signal) ..... 1 Vp-p / 75 Ω
(C_B/C_R-signal) ..... ±0.350 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz

Usable Sensitivity (DIN at 75 Ω)
Mono ..... 1.3 µV/ 13.2 dBf (40 kHz dev., S/N 26 dB)
Stereo ..... 35.1 µV/ 42.1 dBf (46 kHz dev., S/N 46 dB)

Total Harmonic Distortion (DIN at 1 kHz)
Mono ..... 0.2 % (71.2 dBf input)
Stereo ..... 0.8 % (71.2 dBf input)

Signal to Noise Ratio (DIN weighted, 1kHz)
Mono ..... 65 dB (40 kHz dev., 71.2 dBf input)
Stereo ..... 60 dB (40 kHz dev., 71.2 dBf input)

Stereo Separation (DIN at 1 kHz) ..... 36 dB

Selectivity (DIN ±300 kHz) ..... 64 dB

Frequency Response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

AM Tuner Section

Tuning Frequency Range ..... 531 kHz ~ 1,602 kHz

Usable Sensitivity (30 % mod., S/N 20 dB) ..... 16 µV / (500 µV/m)

Signal to Noise Ratio (30 % mod., 1 mV input) ..... 50 dB

IR In/Out Section

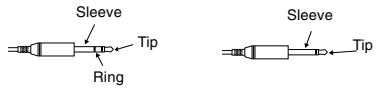
IR Receiver In Terminal

Maximum Output Current ..... 20 mA
Operating Voltage ..... 12 V
Output Impedance ..... 470 Ω

IR Out LCD Remote Terminal
Maximum Output Current ..... 20 mA
Operating Voltage ..... 5 V
Output Impedance ..... 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote	DVD Control
Stereo mini plug	Mono mini plug



IR IN/OUT SPECIFICATION:

	Terminal	
	IR Receiver In	IR Out LCD Remote
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12V	Ground

General

Power consumption ..... 500 W

AC outlet
Switched ..... 2 (total 90 W max.)

Dimensions ..... W : 440mm
H : 191mm
D : 416mm

Weight (Net) ..... 16.8 kg

KRF-X7775D (for Other Countries)

Audio Section

Rated Output Power during stereo operation
20 Hz ~ 20 kHz, 0.7% T.H.D. , 6Ω (IEC) ..... 130W + 130 W
120 watts per channel minimum RMS, both channels driven, at 6 Ω from 20Hz to 20kHz with no more than 0.05% total harmonic distortion (FTC).

Effective Output Power during stereo operation
1 kHz, 10% T.H.D. at 6 Ω ..... 170 W + 170 W

Effective Output Power during surround operation, one channel driven
Front
1 kHz, 10% T.H.D. at 6 Ω ..... 180 W + 180 W
20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω ..... 150 W + 150 W
Center
1 kHz, 10% T.H.D. at 6 Ω ..... 180 W
20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω ..... 150 W
Surround
1 kHz, 10% T.H.D. at 6 Ω ..... 180 W + 180 W
20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω ..... 150 W + 150 W

Effective Output Power during surround operation, all channel driven (Front, Center, Surround)
1 kHz, 0.006% T.H.D. at 6 Ω ..... 95 W × 5

Total Harmonic Distortion ..... 0.005 % (1 kHz, 65 W, 6 Ω)

Frequency Response (IHF'66)
Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 3, DVD/6CH.) ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)
PHONO (MM) ..... 76 dB
CD1 ..... 98 dB

Input Sensitivity / Impedance
PHONO (MM) ..... 4.0 mV / 47 kΩ
CD1 ..... 300 mV / 47 kΩ
DVD/6CH. ..... 300 mV / 47 kΩ

Output Level / Impedance
TAPE REC ..... 300 mV / 2.2 k Ω
PRE OUT (Front, Center, Surround, Surround back) ..... 1 V / 470 Ω
PRE OUT (Subwoofer) ..... 1.8 V / 470 Ω

Tone Control
Bass ..... ± 7 dB (at 100 Hz)
Treble ..... ± 7 dB (at 10 kHz)

Loudness Control
Volume at -30 dB level ..... +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω

Output Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm

Video Section

Video Inputs / Outputs
Video (composite) ..... 1 Vp-p / 75 Ω
S Video (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω
Component (luminance signal) ..... 1 Vp-p / 75 Ω
(C_B/C_R-signal) ..... ±0.350 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz

Usable Sensitivity (Mono) ..... 1.3 µV (75 Ω) / 13.2 dBf (75 kHz dev., sinad 30 dB)

50dB Quieting Sensitivity
Stereo ..... 25.1 µV (75 Ω) / 39.2 dBf

Total Harmonic Distortion (1 kHz)
Mono ..... 0.3 % (71.2 dBf input)
Stereo ..... 0.5 % (71.2 dBf input)

Signal to Noise Ratio (1 kHz, 75 kHz DEV.)
Mono ..... 75 dB (71.2 dBf input)
Stereo ..... 70 dB (71.2 dBf input)

Stereo Separation (1 kHz) ..... 40 dB

Selectivity (±400 kHz) ..... 50 dB

FrequencyResponse ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

AM Tuner Section

Tuning Frequency Range
9kHz step ..... 531 kHz ~ 1,602 kHz
10kHz step ..... 530 kHz ~ 1,610 kHz

Usable Sensitivity (30 % mod., S/N 20 dB) ..... 16 µV / (500 µV/m)

Signal to Noise Ratio (30 % mod. 1 mV input) ..... 50 dB

IR In/Out Section (for U. S. military)

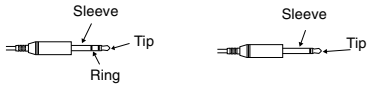
IR Receiver In Terminal

Maximum Output Current ..... 20 mA
Operating Voltage ..... 12 V
Output Impedance ..... 470 Ω

IR Out LCD Remote Terminal
Maximum Output Current ..... 20 mA
Operating Voltage ..... 5 V
Output Impedance ..... 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote	DVD Control
Stereo mini plug	Mono mini plug



IR IN/OUT SPECIFICATION:

	Terminal	
	IR Receiver In	IR Out LCD Remote
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12V	Ground

General

Power consumption ..... 500 W

AC outlet
Switched (except for Australia) ..... 2 (total 90 W max.)
Switched (for Australia) ..... 1 (total 90 W max.)

Dimensions ..... W : 440mm
H : 191mm
D : 416mm

Weight (Net) ..... 16.8 kg

Kenwood follows a policy of continuous advancements in development. For this reason, specifications may be changed without notice.

Full performance may not be exhibited in extremely cold locations (below 0 deg. C).

KRF-X7775D/X7775D-S/VR-5080/5090

SPECIFICATIONS

VR-5090/VR-5080

Audio Section

Rated Output Power during stereo operation
110 watts per channel minimum RMS, both channels driven, at 6 Ω from 20Hz to 20kHz with no more than 0.03% total harmonic distortion (FTC).

Effective Output Power during surround operation
1 kHz, 0.06% T.H.D. at 6 Ω, all channel driven
(Front, Center, Surround) ..... 80 W × 5

Total Harmonic Distortion ..... 0.005 % (1 kHz, 55 W, 6 Ω)

Frequency Response (IHF'66)
VR-5090
Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 4, DVD/6CH.) ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB
VR-5080
Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 3, DVD/6CH.) ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)
PHONO (MM) ..... 76 dB
CD1 ..... 98 dB

Input Sensitivity / Impedance
PHONO (MM) ..... 4.0 mV / 47 kΩ
CD1 ..... 300 mV / 47 kΩ
DVD/6CH. ..... 300 mV / 47 kΩ

Output Level / Impedance
TAPE REC ..... 300 mV / 2.2 kΩ
PRE OUT (Front, Center, Surround, Surround back) ..... 1 V / 470 Ω
PRE OUT (Subwoofer) ..... 1.8 V / 470 Ω

Tone Control
Bass ..... ±7 dB (at 100 Hz)
Treble ..... ±7 dB (at 10 kHz)

Loudness Control
Volume at -30 dB level ..... +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input Level / Impedance / Wavelength
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω

Output Level / Impedance / Wavelength
VR-5090
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm
Coaxial ..... 0.5 Vp-p / 75 Ω
VR-5080
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30 nm

Video Section

Video Inputs / Outputs
Video (composite) ..... 1 Vp-p / 75 Ω
S Video (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω
Component (luminance signal) ..... 1 Vp-p / 75 Ω
(PB/PR-signal) ..... ±0.324 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz

Usable Sensitivity (Mono)
..... 1.2 μV (75 Ω) / 12.2 dBf (75 kHz dev., sinad 30 dB)

50dB Quieting Sensitivity
Stereo ..... 22.4 μV (75Ω) / 38.2 dBf

Total Harmonic Distortion (1 kHz)
Mono ..... 0.3 % (71.2 dBf input)
Stereo ..... 0.5 % (71.2 dBf input)

Signal to Noise Ratio (1 kHz, 75 kHz DEV.)
Mono ..... 75 dB (71.2 dBf input)
Stereo ..... 70 dB (71.2 dBf input)

Stereo Separation (1 kHz) ..... 40 dB

Selectivity (±400 kHz) ..... 70 dB

Frequency Response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

AM Tuner Section

Tuning Frequency Range
10kHz step ..... 530 kHz ~ 1,700 kHz

Usable Sensitivity (30 % mod., S/N 20 dB)
..... 16 μV / (500 μV/m)

Signal to Noise Ratio (30 % mod. 1 mV input) ..... 50 dB

IR In/Out Section

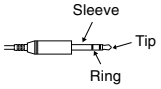
IR Receiver In Terminal
Maximum Output Current ..... 20 mA
Operating Voltage ..... 12 V
Output Impedance ..... 470 Ω

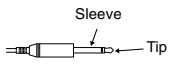
IR Out LCD Remote Terminal
Maximum Output Current ..... 20 mA
Operating Voltage ..... 5 V
Output Impedance ..... 470 Ω

IR Repeater Out Terminal
Maximum Output Current ..... 20m A
Operating Voltage ..... 12 V
Output Impedance ..... 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote	IR Repeater Out
Stereo mini plug	Mono mini plug





IR IN/OUT SPECIFICATION:

Terminal	IR Receiver In	IR Out LCD Remote
To Tip	Signal	Signal
To Ground	Ground	———
To Sleeve	+12V	Ground

General

Power consumption ..... 5 A
AC outlet Switched ..... 2 (total 90W, 0.75 A max.)
Dimensions ..... W : 440mm (17-5/16")
..... H : 191mm (7-1/2")
..... D : 416mm (16-3/8")
Weight (Net) ..... 15.0 kg (33.0 lb)

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